**知识框架**

**Ghy**

**Chinese knowledge elements:**

***汉字(梳理)***

**Ga**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [伽7](http://xh.5156edu.com/html3/2839.html)[轧5](http://xh.5156edu.com/html3/10631.html)[嘎14](http://xh.5156edu.com/html3/5896.html)[尬7](http://xh.5156edu.com/html3/10428.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Ga 1 | [夹6](http://xh.5156edu.com/html3/4941.html)  [旮6](http://xh.5156edu.com/html3/12729.html)  [伽7](http://xh.5156edu.com/html3/2839.html)  [呷8](http://xh.5156edu.com/html3/5484.html)[咖8](http://xh.5156edu.com/html3/5485.html)[嘎14](http://xh.5156edu.com/html3/5896.html)[嘠15](http://xh.5156edu.com/html3/5963.html) | | Ga 2 | [轧5](http://xh.5156edu.com/html3/10631.html)[钆6](http://xh.5156edu.com/html3/14490.html)[釓9](http://xh.5156edu.com/html3/19627.html)[錷16](http://xh.5156edu.com/html3/19954.html)  [尜9](http://xh.5156edu.com/html3/9990.html)  [噶15](http://xh.5156edu.com/html3/5943.html) | | Ga 3 | [玍5](http://xh.5156edu.com/html3/1647.html)  [尕5](http://xh.5156edu.com/html3/9980.html)  [嘎14](http://xh.5156edu.com/html3/5896.html) | | Ga 4 | [尬7](http://xh.5156edu.com/html3/10428.html)[魀13](http://xh.5156edu.com/html3/20968.html) | | ？ | [乫6](http://xh.5156edu.com/html3/1720.html)  [凩6](http://xh.5156edu.com/html3/2515.html)  [軈24](http://xh.5156edu.com/html3/18602.html) | |

**Gai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [该8](http://xh.5156edu.com/html3/3481.html) [改7](http://xh.5156edu.com/html3/12548.html) [盖11](http://xh.5156edu.com/html3/14809.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gai 1 | [侅8](http://xh.5156edu.com/html3/2936.html)[该8](http://xh.5156edu.com/html3/3481.html)[陔8](http://xh.5156edu.com/html3/2251.html)[郂8](http://xh.5156edu.com/html3/2277.html)[荄9](http://xh.5156edu.com/html3/3781.html)[姟9](http://xh.5156edu.com/html3/6472.html)[峐9](http://xh.5156edu.com/html3/7120.html)[垓9](http://xh.5156edu.com/html3/9536.html)[赅10](http://xh.5156edu.com/html3/10539.html)[晐10](http://xh.5156edu.com/html3/12831.html)  [畡11](http://xh.5156edu.com/html3/15881.html)[絯12](http://xh.5156edu.com/html3/17247.html)[賅13](http://xh.5156edu.com/html3/18154.html)[賌13](http://xh.5156edu.com/html3/18155.html)[豥13](http://xh.5156edu.com/html3/18618.html)[該13](http://xh.5156edu.com/html3/18780.html)  [祴11](http://xh.5156edu.com/html3/13051.html)  [隑12](http://xh.5156edu.com/html3/2400.html) | | Gai 3 | [忋6](http://xh.5156edu.com/html3/10010.html)[改7](http://xh.5156edu.com/html3/12548.html)  [絠12](http://xh.5156edu.com/html3/17239.html) | | Gai 4 | [丐4](http://xh.5156edu.com/html3/1682.html)[钙9](http://xh.5156edu.com/html3/14516.html)[鈣12](http://xh.5156edu.com/html3/19674.html)  [乢4](http://xh.5156edu.com/html3/1737.html)  [匃5](http://xh.5156edu.com/html3/1791.html)[匄5](http://xh.5156edu.com/html3/1792.html)  [芥7](http://xh.5156edu.com/html3/3659.html)  [盖11](http://xh.5156edu.com/html3/14809.html)[葢12](http://xh.5156edu.com/html3/4087.html)[蓋13](http://xh.5156edu.com/html3/4195.html)[瓂17](http://xh.5156edu.com/html3/13556.html)  [摡12](http://xh.5156edu.com/html3/7895.html)[溉12](http://xh.5156edu.com/html3/8688.html)[概13](http://xh.5156edu.com/html3/11941.html)[槩13](http://xh.5156edu.com/html3/11976.html)[漑14](http://xh.5156edu.com/html3/8955.html)[槪15](http://xh.5156edu.com/html3/12152.html)  [戤13](http://xh.5156edu.com/html3/10844.html) | |

**Gan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [甘5](http://xh.5156edu.com/html3/14289.html) [感13](http://xh.5156edu.com/html3/13717.html)[幹13](http://xh.5156edu.com/html3/22232.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gan 1 | [干3](http://xh.5156edu.com/html3/5006.html)[迀6](http://xh.5156edu.com/html3/4701.html)[奸6](http://xh.5156edu.com/html3/6347.html)[忓6](http://xh.5156edu.com/html3/10006.html)[杆7](http://xh.5156edu.com/html3/11435.html)[攼7](http://xh.5156edu.com/html3/12551.html)[玕7](http://xh.5156edu.com/html3/13288.html)[肝7](http://xh.5156edu.com/html3/13835.html)[矸8](http://xh.5156edu.com/html3/15425.html)[竿9](http://xh.5156edu.com/html3/17740.html)  [筸13](http://xh.5156edu.com/html3/17859.html)[鳱14](http://xh.5156edu.com/html3/21577.html)  [甘5](http://xh.5156edu.com/html3/14289.html)[姏8](http://xh.5156edu.com/html3/6430.html)[泔8](http://xh.5156edu.com/html3/8335.html)[苷8](http://xh.5156edu.com/html3/3709.html)[坩8](http://xh.5156edu.com/html3/9491.html)[柑9](http://xh.5156edu.com/html3/11551.html)[酐10](http://xh.5156edu.com/html3/19087.html)[疳10](http://xh.5156edu.com/html3/15112.html)[粓11](http://xh.5156edu.com/html3/16974.html)  [凲12](http://xh.5156edu.com/html3/2522.html)  [尴13](http://xh.5156edu.com/html3/10436.html)[尲13](http://xh.5156edu.com/html3/10437.html)[尷17](http://xh.5156edu.com/html3/10439.html)  [漧14](http://xh.5156edu.com/html3/8902.html)  [尶17](http://xh.5156edu.com/html3/9953.html)  [魐19](http://xh.5156edu.com/html3/20986.html) | | Gai 3 | [仠5](http://xh.5156edu.com/html3/2765.html)[芉6](http://xh.5156edu.com/html3/3638.html)[杆7](http://xh.5156edu.com/html3/11435.html)[皯8](http://xh.5156edu.com/html3/15394.html)[衦8](http://xh.5156edu.com/html3/16020.html)[秆8](http://xh.5156edu.com/html3/14313.html)[赶10](http://xh.5156edu.com/html3/19251.html)  [笴11](http://xh.5156edu.com/html3/17773.html)  [桿11](http://xh.5156edu.com/html3/11771.html)[稈12](http://xh.5156edu.com/html3/14380.html)[趕14](http://xh.5156edu.com/html3/19284.html)  [敢11](http://xh.5156edu.com/html3/12571.html)[澉14](http://xh.5156edu.com/html3/8903.html)[橄15](http://xh.5156edu.com/html3/12118.html)[簳19](http://xh.5156edu.com/html3/18046.html)  [感13](http://xh.5156edu.com/html3/13717.html)[澸16](http://xh.5156edu.com/html3/9095.html)[擀16](http://xh.5156edu.com/html3/8124.html)[鳡21](http://xh.5156edu.com/html3/20625.html)[鱤24](http://xh.5156edu.com/html3/22137.html) | | Gai 4 | [干3](http://xh.5156edu.com/html3/5006.html)[旰7](http://xh.5156edu.com/html3/12737.html)[盰8](http://xh.5156edu.com/html3/14847.html)[骭12](http://xh.5156edu.com/html3/20920.html)  [汵7](http://xh.5156edu.com/html3/8306.html)  [绀8](http://xh.5156edu.com/html3/9294.html)[紺11](http://xh.5156edu.com/html3/17189.html)[詌12](http://xh.5156edu.com/html3/18740.html)  [凎10](http://xh.5156edu.com/html3/1843.html)[淦11](http://xh.5156edu.com/html3/8580.html)  [倝10](http://xh.5156edu.com/html3/2729.html)[幹13](http://xh.5156edu.com/html3/22232.html)[榦14](http://xh.5156edu.com/html3/12058.html)[檊17](http://xh.5156edu.com/html3/12286.html)[贑21](http://xh.5156edu.com/html3/18228.html)[赣21](http://xh.5156edu.com/html3/10579.html)[贛24](http://xh.5156edu.com/html3/18237.html)[灨27](http://xh.5156edu.com/html3/9253.html) | |

**Gang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [冈4](http://xh.5156edu.com/html3/2546.html) [港12](http://xh.5156edu.com/html3/8689.html)[杠7](http://xh.5156edu.com/html3/11436.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gang1 | [冈4](http://xh.5156edu.com/html3/2546.html)[刚6](http://xh.5156edu.com/html3/1962.html)[纲7](http://xh.5156edu.com/html3/9273.html)[岗7](http://xh.5156edu.com/html3/7042.html)[7](http://xh.5156edu.com/html3/22484.html)[8](http://xh.5156edu.com/html3/22489.html)[岡8](http://xh.5156edu.com/html3/7079.html)[钢9](http://xh.5156edu.com/html3/14517.html)[剛10](http://xh.5156edu.com/html3/2034.html)[堈11](http://xh.5156edu.com/html3/9654.html)[掆11](http://xh.5156edu.com/html3/7804.html)  [犅12](http://xh.5156edu.com/html3/12474.html)[棡12](http://xh.5156edu.com/html3/11827.html)[罁14](http://xh.5156edu.com/html3/16835.html)[綱14](http://xh.5156edu.com/html3/17309.html)[鋼16](http://xh.5156edu.com/html3/19923.html)  [冮5](http://xh.5156edu.com/html3/1813.html)[扛6](http://xh.5156edu.com/html3/7537.html)[杠7](http://xh.5156edu.com/html3/11436.html)[肛7](http://xh.5156edu.com/html3/13836.html)[疘8](http://xh.5156edu.com/html3/15091.html)[矼8](http://xh.5156edu.com/html3/15426.html)[缸9](http://xh.5156edu.com/html3/16825.html)[釭11](http://xh.5156edu.com/html3/19642.html)[摃13](http://xh.5156edu.com/html3/8000.html)  [牨8](http://xh.5156edu.com/html3/12451.html)  [罡10](http://xh.5156edu.com/html3/15779.html)[堽13](http://xh.5156edu.com/html3/9723.html)[鎠18](http://xh.5156edu.com/html3/20077.html) | | Gang3 | [岗7](http://xh.5156edu.com/html3/7042.html)[崗11](http://xh.5156edu.com/html3/7186.html)  [港12](http://xh.5156edu.com/html3/8689.html) | | Gang4 | [杠7](http://xh.5156edu.com/html3/11436.html)[槓14](http://xh.5156edu.com/html3/12064.html)  [岗7](http://xh.5156edu.com/html3/7042.html)[钢9](http://xh.5156edu.com/html3/14517.html)[焵12](http://xh.5156edu.com/html3/11059.html)[焹12](http://xh.5156edu.com/html3/11077.html)  [筻13](http://xh.5156edu.com/html3/17841.html)  [戆25](http://xh.5156edu.com/html3/13793.html)[戅25](http://xh.5156edu.com/html3/13794.html)[戇28](http://xh.5156edu.com/html3/13795.html) | |

**Gao**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [高10](http://xh.5156edu.com/html3/21268.html) [稿15](http://xh.5156edu.com/html3/14428.html)[告7](http://xh.5156edu.com/html3/5423.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Gao 1 | [羔10](http://xh.5156edu.com/html3/10593.html)[羙10](http://xh.5156edu.com/html3/22515.html)[糕16](http://xh.5156edu.com/html3/17028.html)[餻18](http://xh.5156edu.com/html3/20493.html)  [皋10](http://xh.5156edu.com/html3/14245.html)[槔14](http://xh.5156edu.com/html3/12031.html)[韟19](http://xh.5156edu.com/html3/21031.html)[鷎21](http://xh.5156edu.com/html3/21781.html)  [高10](http://xh.5156edu.com/html3/21268.html)[髙11](http://xh.5156edu.com/html3/21269.html)[膏14](http://xh.5156edu.com/html3/14097.html)[篙16](http://xh.5156edu.com/html3/17954.html)  [皐11](http://xh.5156edu.com/html3/14250.html)[臯12](http://xh.5156edu.com/html3/18105.html)[槹15](http://xh.5156edu.com/html3/12145.html)[橰16](http://xh.5156edu.com/html3/12232.html)[鷱23](http://xh.5156edu.com/html3/21825.html)  [睾14](http://xh.5156edu.com/html3/14975.html)  [櫜19](http://xh.5156edu.com/html3/12344.html)  [鼛21](http://xh.5156edu.com/html3/22240.html) |
| Gao 3 | [夰5](http://xh.5156edu.com/html3/4938.html)  [杲8](http://xh.5156edu.com/html3/11480.html)[菒11](http://xh.5156edu.com/html3/4015.html)  [稁12](http://xh.5156edu.com/html3/14382.html)  [搞13](http://xh.5156edu.com/html3/7966.html)[缟13](http://xh.5156edu.com/html3/9384.html)[槁14](http://xh.5156edu.com/html3/12032.html)[槀14](http://xh.5156edu.com/html3/12069.html)[暠14](http://xh.5156edu.com/html3/12909.html)[稿15](http://xh.5156edu.com/html3/14428.html)[稾15](http://xh.5156edu.com/html3/14429.html)[镐15](http://xh.5156edu.com/html3/14685.html)[縞16](http://xh.5156edu.com/html3/17409.html)  [藁17](http://xh.5156edu.com/html3/4442.html)[藳18](http://xh.5156edu.com/html3/4490.html)[鎬18](http://xh.5156edu.com/html3/20070.html)  [檺18](http://xh.5156edu.com/html3/12321.html) |
| Gao 4 | [告7](http://xh.5156edu.com/html3/5423.html)[郜9](http://xh.5156edu.com/html3/2292.html)[勂9](http://xh.5156edu.com/html3/2612.html)[诰9](http://xh.5156edu.com/html3/3502.html)[峼10](http://xh.5156edu.com/html3/7153.html)[祮10](http://xh.5156edu.com/html3/13041.html)[祰11](http://xh.5156edu.com/html3/13052.html)[锆12](http://xh.5156edu.com/html3/14609.html)[筶13](http://xh.5156edu.com/html3/17860.html)[誥14](http://xh.5156edu.com/html3/18811.html)[鋯15](http://xh.5156edu.com/html3/19863.html)  [禞14](http://xh.5156edu.com/html3/13093.html)[膏14](http://xh.5156edu.com/html3/14097.html) |
| ？ | [吿7](http://xh.5156edu.com/html3/5460.html) |

**Ge**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [歌14](http://xh.5156edu.com/html3/12683.html)[革9](http://xh.5156edu.com/html3/20820.html)[各6](http://xh.5156edu.com/html3/5385.html)[个3](http://xh.5156edu.com/html3/2697.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Ge 1 | [戈4](http://xh.5156edu.com/html3/10817.html)[戓7](http://xh.5156edu.com/html3/10828.html)[牫8](http://xh.5156edu.com/html3/12452.html)  [仡5](http://xh.5156edu.com/html3/2749.html)[犵6](http://xh.5156edu.com/html3/6825.html)[扢6](http://xh.5156edu.com/html3/7538.html)[纥6](http://xh.5156edu.com/html3/9259.html)[圪6](http://xh.5156edu.com/html3/9428.html)[肐7](http://xh.5156edu.com/html3/13842.html)[疙8](http://xh.5156edu.com/html3/15085.html)  [饹9](http://xh.5156edu.com/html3/7471.html)[咯9](http://xh.5156edu.com/html3/5551.html)[胳10](http://xh.5156edu.com/html3/13938.html)[格10](http://xh.5156edu.com/html3/11643.html)[袼11](http://xh.5156edu.com/html3/16076.html)[搁12](http://xh.5156edu.com/html3/7896.html)  [哥10](http://xh.5156edu.com/html3/5618.html)[滒13](http://xh.5156edu.com/html3/8868.html)[歌14](http://xh.5156edu.com/html3/12683.html)[戨14](http://xh.5156edu.com/html3/10852.html)[謌17](http://xh.5156edu.com/html3/18929.html)[鎶18](http://xh.5156edu.com/html3/20079.html)  [鸽11](http://xh.5156edu.com/html3/15332.html)[鴿17](http://xh.5156edu.com/html3/21646.html)  [割12](http://xh.5156edu.com/html3/2051.html)  [鴚16](http://xh.5156edu.com/html3/21621.html)  [擱17](http://xh.5156edu.com/html3/8160.html) | | Ge 2 | [呄7](http://xh.5156edu.com/html3/5462.html)  [匌8](http://xh.5156edu.com/html3/1797.html)[佮8](http://xh.5156edu.com/html3/2933.html)[蛤12](http://xh.5156edu.com/html3/16373.html)[閤14](http://xh.5156edu.com/html3/20308.html)[搿14](http://xh.5156edu.com/html3/13138.html)[鞈15](http://xh.5156edu.com/html3/20856.html)[韐15](http://xh.5156edu.com/html3/21013.html)[鮯17](http://xh.5156edu.com/html3/21959.html)  [茖9](http://xh.5156edu.com/html3/3782.html)[阁9](http://xh.5156edu.com/html3/6188.html)[挌9](http://xh.5156edu.com/html3/7684.html)[胳10](http://xh.5156edu.com/html3/13938.html)[格10](http://xh.5156edu.com/html3/11643.html)[敋10](http://xh.5156edu.com/html3/12567.html)[搁12](http://xh.5156edu.com/html3/7896.html)[蛒12](http://xh.5156edu.com/html3/16394.html)[臵12](http://xh.5156edu.com/html3/17651.html)[觡13](http://xh.5156edu.com/html3/18528.html)[閣14](http://xh.5156edu.com/html3/20314.html)  [骼15](http://xh.5156edu.com/html3/20934.html)  [革9](http://xh.5156edu.com/html3/20820.html)[愅12](http://xh.5156edu.com/html3/10245.html)[諽16](http://xh.5156edu.com/html3/18914.html)[韚18](http://xh.5156edu.com/html3/21022.html)[鞷19](http://xh.5156edu.com/html3/20901.html)  [鬲10](http://xh.5156edu.com/html3/21275.html)[隔12](http://xh.5156edu.com/html3/2401.html)[嗝13](http://xh.5156edu.com/html3/5845.html)[滆13](http://xh.5156edu.com/html3/8808.html)[塥13](http://xh.5156edu.com/html3/9724.html)[槅14](http://xh.5156edu.com/html3/12033.html)[膈14](http://xh.5156edu.com/html3/14098.html)[镉15](http://xh.5156edu.com/html3/14686.html)  [葛12](http://xh.5156edu.com/html3/4057.html)[獦15](http://xh.5156edu.com/html3/6982.html)[輵16](http://xh.5156edu.com/html3/18363.html)[騔19](http://xh.5156edu.com/html3/21404.html)[轕19](http://xh.5156edu.com/html3/18385.html)  [裓12](http://xh.5156edu.com/html3/16106.html) | | Ge 3 | [个3](http://xh.5156edu.com/html3/2697.html)  [合6](http://xh.5156edu.com/html3/5384.html)  [各6](http://xh.5156edu.com/html3/5385.html)  [哿10](http://xh.5156edu.com/html3/5619.html)[舸11](http://xh.5156edu.com/html3/17679.html)  [盖11](http://xh.5156edu.com/html3/14809.html)  [葛12](http://xh.5156edu.com/html3/4057.html)  [嗰13](http://xh.5156edu.com/html3/5877.html) | | Ge 4 | [个3](http://xh.5156edu.com/html3/2697.html)  [各6](http://xh.5156edu.com/html3/5385.html)  [虼9](http://xh.5156edu.com/html3/16281.html)  [個10](http://xh.5156edu.com/html3/3055.html)[箇14](http://xh.5156edu.com/html3/17892.html)  [铬11](http://xh.5156edu.com/html3/14573.html)[硌11](http://xh.5156edu.com/html3/15498.html)[鉻14](http://xh.5156edu.com/html3/19814.html) | | ？ | [乬5](http://xh.5156edu.com/html3/1717.html)[巪5](http://xh.5156edu.com/html3/5017.html)  [叾5](http://xh.5156edu.com/html3/5378.html)  [唟10](http://xh.5156edu.com/html3/5663.html)  [彁13](http://xh.5156edu.com/html3/5072.html)  [櫊18](http://xh.5156edu.com/html3/12322.html) | |

**Gei**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [给9](http://xh.5156edu.com/html3/9309.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Gei 3 | [给9](http://xh.5156edu.com/html3/9309.html)[給12](http://xh.5156edu.com/html3/17230.html) |

**Gen**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [根10](http://xh.5156edu.com/html3/11644.html)[哏9](http://xh.5156edu.com/html3/5552.html)[艮6](http://xh.5156edu.com/html3/16850.html)[亘6](http://xh.5156edu.com/html3/2120.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gen 1 | [根10](http://xh.5156edu.com/html3/11644.html)[跟13](http://xh.5156edu.com/html3/19359.html) | | Gen 2 | [哏9](http://xh.5156edu.com/html3/5552.html) | | Gen 3 | [艮6](http://xh.5156edu.com/html3/16850.html) | | Gen 4 | [亘6](http://xh.5156edu.com/html3/2120.html)[搄12](http://xh.5156edu.com/html3/7940.html)  [亙6](http://xh.5156edu.com/html3/2122.html)  [艮6](http://xh.5156edu.com/html3/16850.html)[茛9](http://xh.5156edu.com/html3/3783.html)  [揯12](http://xh.5156edu.com/html3/7939.html) | |

**Geng**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [耕](http://xh.5156edu.com/html3/16905.html) [耿10](http://xh.5156edu.com/html3/16754.html)[更7](http://xh.5156edu.com/html3/13806.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Geng 1 | [更7](http://xh.5156edu.com/html3/13806.html)[浭10](http://xh.5156edu.com/html3/8541.html)  [刯8](http://xh.5156edu.com/html3/2007.html)[縆15](http://xh.5156edu.com/html3/17346.html)  [庚8](http://xh.5156edu.com/html3/5125.html)[菮11](http://xh.5156edu.com/html3/4016.html)[赓12](http://xh.5156edu.com/html3/10558.html)[焿12](http://xh.5156edu.com/html3/11060.html)[鹒13](http://xh.5156edu.com/html3/15352.html)[賡15](http://xh.5156edu.com/html3/18175.html)[鶊19](http://xh.5156edu.com/html3/21706.html)  [畊9](http://xh.5156edu.com/html3/15854.html)[耕10](http://xh.5156edu.com/html3/16905.html)  [絚12](http://xh.5156edu.com/html3/17228.html)[緪15](http://xh.5156edu.com/html3/17369.html)  [羮15](http://xh.5156edu.com/html3/25573.html)[羹19](http://xh.5156edu.com/html3/22427.html) | | Geng 3 | [郠9](http://xh.5156edu.com/html3/2317.html)[莄10](http://xh.5156edu.com/html3/3908.html)[哽10](http://xh.5156edu.com/html3/5620.html)[峺10](http://xh.5156edu.com/html3/7154.html)[挭10](http://xh.5156edu.com/html3/7780.html)[绠10](http://xh.5156edu.com/html3/9322.html)[埂10](http://xh.5156edu.com/html3/9577.html)[梗11](http://xh.5156edu.com/html3/11737.html)[綆13](http://xh.5156edu.com/html3/17264.html)[鲠15](http://xh.5156edu.com/html3/20561.html)[骾16](http://xh.5156edu.com/html3/20940.html)[鯁18](http://xh.5156edu.com/html3/21970.html)  [耿10](http://xh.5156edu.com/html3/16754.html)  [颈11](http://xh.5156edu.com/html3/22392.html) | | Geng 4 | [更7](http://xh.5156edu.com/html3/13806.html)  [堩12](http://xh.5156edu.com/html3/9675.html)[暅13](http://xh.5156edu.com/html3/12888.html) | | ？ | [椩12](http://xh.5156edu.com/html3/11896.html) | |

**Gong**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [工3](http://xh.5156edu.com/html3/5013.html) [汞7](http://xh.5156edu.com/html3/13192.html)[共6](http://xh.5156edu.com/html3/1761.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gong1 | [工3](http://xh.5156edu.com/html3/5013.html)[功5](http://xh.5156edu.com/html3/2572.html)[红6](http://xh.5156edu.com/html3/9260.html)[攻7](http://xh.5156edu.com/html3/12549.html)[幊13](http://xh.5156edu.com/html3/5315.html)[愩13](http://xh.5156edu.com/html3/10274.html)[慐14](http://xh.5156edu.com/html3/13737.html)[碽15](http://xh.5156edu.com/html3/15637.html)  [弓3](http://xh.5156edu.com/html3/5025.html)[杛7](http://xh.5156edu.com/html3/11457.html)[躬10](http://xh.5156edu.com/html3/18574.html)[匑12](http://xh.5156edu.com/html3/1805.html)  [公4](http://xh.5156edu.com/html3/1758.html)[蚣10](http://xh.5156edu.com/html3/16303.html)  [厷4](http://xh.5156edu.com/html3/3379.html)[肱8](http://xh.5156edu.com/html3/13856.html)  [4](http://xh.5156edu.com/html3/22466.html)[恭10](http://xh.5156edu.com/html3/9992.html)[塨13](http://xh.5156edu.com/html3/9725.html)  [共6](http://xh.5156edu.com/html3/1761.html)[供8](http://xh.5156edu.com/html3/2891.html)[龚11](http://xh.5156edu.com/html3/14778.html)[髸16](http://xh.5156edu.com/html3/21211.html)[龔23](http://xh.5156edu.com/html3/22344.html)  [侊8](http://xh.5156edu.com/html3/2937.html)[觥13](http://xh.5156edu.com/html3/18524.html)  [糼8](http://xh.5156edu.com/html3/17147.html)[糿8](http://xh.5156edu.com/html3/17148.html)  [宫9](http://xh.5156edu.com/html3/6256.html)[宮10](http://xh.5156edu.com/html3/6277.html)[躳13](http://xh.5156edu.com/html3/18580.html)[匔15](http://xh.5156edu.com/html3/1806.html)  [觵18](http://xh.5156edu.com/html3/18546.html)  [龏20](http://xh.5156edu.com/html3/22341.html) | | Gong3 | [廾3](http://xh.5156edu.com/html3/5086.html)  [共6](http://xh.5156edu.com/html3/1761.html)[拱9](http://xh.5156edu.com/html3/7685.html)[栱10](http://xh.5156edu.com/html3/11645.html)[拲10](http://xh.5156edu.com/html3/13126.html)[珙10](http://xh.5156edu.com/html3/13351.html)[輁13](http://xh.5156edu.com/html3/18315.html)  [巩6](http://xh.5156edu.com/html3/5018.html)[鞏15](http://xh.5156edu.com/html3/20855.html)  [汞7](http://xh.5156edu.com/html3/13192.html) | | Gong4 | [4](http://xh.5156edu.com/html3/22488.html)  [共6](http://xh.5156edu.com/html3/1761.html)[供8](http://xh.5156edu.com/html3/2891.html)  [贡7](http://xh.5156edu.com/html3/10513.html)[唝10](http://xh.5156edu.com/html3/5621.html)[貢10](http://xh.5156edu.com/html3/18115.html)[嗊13](http://xh.5156edu.com/html3/5868.html)[赣21](http://xh.5156edu.com/html3/10579.html)  [熕14](http://xh.5156edu.com/html3/11143.html) | |

**Gou**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [勾4](http://xh.5156edu.com/html3/1781.html) [狗8](http://xh.5156edu.com/html3/6844.html)[购8](http://xh.5156edu.com/html3/10526.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Gou 1 | [勾4](http://xh.5156edu.com/html3/1781.html)[沟7](http://xh.5156edu.com/html3/8270.html)[钩9](http://xh.5156edu.com/html3/14518.html)[鈎12](http://xh.5156edu.com/html3/19683.html)  [句5](http://xh.5156edu.com/html3/5359.html)  [佝7](http://xh.5156edu.com/html3/2840.html)[枸9](http://xh.5156edu.com/html3/11552.html)[痀10](http://xh.5156edu.com/html3/15131.html)[袧10](http://xh.5156edu.com/html3/16058.html)[鉤13](http://xh.5156edu.com/html3/19739.html)  [缑12](http://xh.5156edu.com/html3/9361.html)[緱15](http://xh.5156edu.com/html3/17365.html)  [溝13](http://xh.5156edu.com/html3/8851.html)[褠15](http://xh.5156edu.com/html3/16171.html)[篝16](http://xh.5156edu.com/html3/17955.html)[簼19](http://xh.5156edu.com/html3/18047.html)[鞲19](http://xh.5156edu.com/html3/20894.html)[韝19](http://xh.5156edu.com/html3/21028.html) |
| Gou 3 | [芶7](http://xh.5156edu.com/html3/3692.html)  [苟8](http://xh.5156edu.com/html3/3710.html)  [狗8](http://xh.5156edu.com/html3/6844.html)[岣8](http://xh.5156edu.com/html3/7064.html)[耇9](http://xh.5156edu.com/html3/11341.html)[耉9](http://xh.5156edu.com/html3/11342.html)[枸9](http://xh.5156edu.com/html3/11552.html)[玽9](http://xh.5156edu.com/html3/13335.html)[蚼11](http://xh.5156edu.com/html3/16366.html)[笱11](http://xh.5156edu.com/html3/17774.html)[耈11](http://xh.5156edu.com/html3/11346.html)[豿12](http://xh.5156edu.com/html3/19217.html) |
| Gou 4 | [勾4](http://xh.5156edu.com/html3/1781.html)[购8](http://xh.5156edu.com/html3/10526.html)[构8](http://xh.5156edu.com/html3/11481.html)  [诟8](http://xh.5156edu.com/html3/3482.html)[詬13](http://xh.5156edu.com/html3/18773.html)  [坸8](http://xh.5156edu.com/html3/9508.html)[够11](http://xh.5156edu.com/html3/9965.html)[夠11](http://xh.5156edu.com/html3/9966.html)[訽12](http://xh.5156edu.com/html3/18741.html)[雊13](http://xh.5156edu.com/html3/20753.html)  [姤9](http://xh.5156edu.com/html3/6442.html)[垢9](http://xh.5156edu.com/html3/9537.html)  [冓10](http://xh.5156edu.com/html3/2564.html)[遘13](http://xh.5156edu.com/html3/4848.html)[媾13](http://xh.5156edu.com/html3/6664.html)[搆13](http://xh.5156edu.com/html3/7997.html)[煹14](http://xh.5156edu.com/html3/11144.html)[觏14](http://xh.5156edu.com/html3/11313.html)[構14](http://xh.5156edu.com/html3/12061.html)[購17](http://xh.5156edu.com/html3/18201.html)[覯17](http://xh.5156edu.com/html3/18489.html)  [啂11](http://xh.5156edu.com/html3/5749.html)  [彀13](http://xh.5156edu.com/html3/5069.html)  [撀15](http://xh.5156edu.com/html3/13149.html) |

**Gu**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [估7](http://xh.5156edu.com/html3/2841.html)[鹘14](http://xh.5156edu.com/html3/15363.html)[古5](http://xh.5156edu.com/html3/5360.html)[固8](http://xh.5156edu.com/html3/9909.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gu 1 | [估7](http://xh.5156edu.com/html3/2841.html)[咕8](http://xh.5156edu.com/html3/5486.html)[鸪10](http://xh.5156edu.com/html3/15320.html)[菇11](http://xh.5156edu.com/html3/3955.html)[蛄11](http://xh.5156edu.com/html3/16340.html)[轱9](http://xh.5156edu.com/html3/10641.html)[軲12](http://xh.5156edu.com/html3/18280.html)[辜12](http://xh.5156edu.com/html3/18640.html)[酤12](http://xh.5156edu.com/html3/19108.html)[嫴15](http://xh.5156edu.com/html3/6744.html)[橭16](http://xh.5156edu.com/html3/12233.html)[鴣16](http://xh.5156edu.com/html3/21603.html)[鮕16](http://xh.5156edu.com/html3/21929.html)  [杚7](http://xh.5156edu.com/html3/11456.html)  [姑8](http://xh.5156edu.com/html3/6405.html)[沽8](http://xh.5156edu.com/html3/8336.html)  [泒8](http://xh.5156edu.com/html3/8389.html)[孤8](http://xh.5156edu.com/html3/10476.html)[苽8](http://xh.5156edu.com/html3/3746.html)[呱8](http://xh.5156edu.com/html3/5487.html)[柧9](http://xh.5156edu.com/html3/11608.html)[罛10](http://xh.5156edu.com/html3/15780.html)[菰11](http://xh.5156edu.com/html3/3954.html)[笟11](http://xh.5156edu.com/html3/17794.html)[軱12](http://xh.5156edu.com/html3/18279.html)[觚12](http://xh.5156edu.com/html3/18519.html)[鈲13](http://xh.5156edu.com/html3/19758.html)  [箛14](http://xh.5156edu.com/html3/17902.html)  [骨9](http://xh.5156edu.com/html3/20918.html)[蓇12](http://xh.5156edu.com/html3/4058.html)  [唂10](http://xh.5156edu.com/html3/5657.html)  [唃10](http://xh.5156edu.com/html3/5658.html)  [家10](http://xh.5156edu.com/html3/6267.html)  [毂13](http://xh.5156edu.com/html3/13172.html)  [稒13](http://xh.5156edu.com/html3/14397.html)  [箍14](http://xh.5156edu.com/html3/17875.html) | | Gu 2 | [鹘14](http://xh.5156edu.com/html3/15363.html) | | Gu 3 | [夃4](http://xh.5156edu.com/html3/10442.html)  [古5](http://xh.5156edu.com/html3/5360.html)[诂7](http://xh.5156edu.com/html3/3463.html)[苦8](http://xh.5156edu.com/html3/3711.html)[牯9](http://xh.5156edu.com/html3/12454.html)[钴10](http://xh.5156edu.com/html3/14539.html)[罟10](http://xh.5156edu.com/html3/15781.html)[蛄11](http://xh.5156edu.com/html3/16340.html)[詁12](http://xh.5156edu.com/html3/18720.html)[鈷13](http://xh.5156edu.com/html3/19723.html)[嘏14](http://xh.5156edu.com/html3/5897.html)  [汩7](http://xh.5156edu.com/html3/8271.html)  [谷7](http://xh.5156edu.com/html3/18442.html)  [骨9](http://xh.5156edu.com/html3/20918.html)[愲12](http://xh.5156edu.com/html3/10246.html)[尳12](http://xh.5156edu.com/html3/10434.html)[馉12](http://xh.5156edu.com/html3/7489.html)[榾13](http://xh.5156edu.com/html3/11942.html)[縎15](http://xh.5156edu.com/html3/17379.html)[餶17](http://xh.5156edu.com/html3/20474.html)[鶻20](http://xh.5156edu.com/html3/21741.html)  [贾10](http://xh.5156edu.com/html3/10540.html)  [蛊11](http://xh.5156edu.com/html3/16341.html)[盬18](http://xh.5156edu.com/html3/14835.html)[蠱23](http://xh.5156edu.com/html3/16723.html)  [啒11](http://xh.5156edu.com/html3/5745.html)[淈11](http://xh.5156edu.com/html3/8644.html)  [鹄12](http://xh.5156edu.com/html3/15342.html)  [股8](http://xh.5156edu.com/html3/13857.html)[羖10](http://xh.5156edu.com/html3/22456.html)[毂13](http://xh.5156edu.com/html3/13172.html)[嗀13](http://xh.5156edu.com/html3/22493.html)[榖14](http://xh.5156edu.com/html3/12072.html)[穀15](http://xh.5156edu.com/html3/14430.html)[糓16](http://xh.5156edu.com/html3/17033.html)[濲17](http://xh.5156edu.com/html3/9118.html)[轂17](http://xh.5156edu.com/html3/18369.html)[瀔18](http://xh.5156edu.com/html3/9158.html)  [鼓13](http://xh.5156edu.com/html3/22233.html)[鼔13](http://xh.5156edu.com/html3/22234.html)[皷14](http://xh.5156edu.com/html3/15401.html)[薣16](http://xh.5156edu.com/html3/4418.html)[臌17](http://xh.5156edu.com/html3/14156.html)[瞽18](http://xh.5156edu.com/html3/15045.html)  [皼17](http://xh.5156edu.com/html3/15407.html) | | Gu 4 | [估7](http://xh.5156edu.com/html3/2841.html)[故9](http://xh.5156edu.com/html3/12556.html)  [固8](http://xh.5156edu.com/html3/9909.html)[凅10](http://xh.5156edu.com/html3/1844.html)[崮11](http://xh.5156edu.com/html3/7169.html)[崓11](http://xh.5156edu.com/html3/7197.html)[堌11](http://xh.5156edu.com/html3/9616.html)[棝12](http://xh.5156edu.com/html3/11897.html)[祻12](http://xh.5156edu.com/html3/13065.html)[锢13](http://xh.5156edu.com/html3/14639.html)[痼13](http://xh.5156edu.com/html3/15175.html)[錮16](http://xh.5156edu.com/html3/19927.html)  [鲴16](http://xh.5156edu.com/html3/20577.html)[鯝19](http://xh.5156edu.com/html3/22002.html)  [顾10](http://xh.5156edu.com/html3/22372.html)  [牿11](http://xh.5156edu.com/html3/12465.html)[梏11](http://xh.5156edu.com/html3/11738.html)  [崮11](http://xh.5156edu.com/html3/7169.html)[崓11](http://xh.5156edu.com/html3/7197.html)[堌11](http://xh.5156edu.com/html3/9616.html)[棝12](http://xh.5156edu.com/html3/11897.html)[祻12](http://xh.5156edu.com/html3/13065.html)[锢13](http://xh.5156edu.com/html3/14639.html)[痼13](http://xh.5156edu.com/html3/15175.html)[錮16](http://xh.5156edu.com/html3/19927.html)[鲴16](http://xh.5156edu.com/html3/20577.html)[鯝19](http://xh.5156edu.com/html3/22002.html)  [雇12](http://xh.5156edu.com/html3/20743.html)[僱14](http://xh.5156edu.com/html3/3253.html)[顧21](http://xh.5156edu.com/html3/21155.html) | | ？ | [逧10](http://xh.5156edu.com/html3/4791.html)  [脵11](http://xh.5156edu.com/html3/14004.html)  [傦11](http://xh.5156edu.com/html3/3138.html) | |

**Gua**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [瓜5](http://xh.5156edu.com/html3/14296.html) [寡14](http://xh.5156edu.com/html3/6317.html)[挂9](http://xh.5156edu.com/html3/7686.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gua 1 | [瓜5](http://xh.5156edu.com/html3/14296.html)[呱8](http://xh.5156edu.com/html3/5487.html)[胍9](http://xh.5156edu.com/html3/13894.html)  [刮8](http://xh.5156edu.com/html3/1994.html)[栝10](http://xh.5156edu.com/html3/11646.html)[鸹11](http://xh.5156edu.com/html3/15333.html)[趏13](http://xh.5156edu.com/html3/19279.html)[颳15](http://xh.5156edu.com/html3/20792.html)[鴰17](http://xh.5156edu.com/html3/21639.html)  [桰11](http://xh.5156edu.com/html3/11798.html)  [歄12](http://xh.5156edu.com/html3/12673.html)[煱12](http://xh.5156edu.com/html3/11062.html)[緺14](http://xh.5156edu.com/html3/17294.html)[踻15](http://xh.5156edu.com/html3/19430.html)[騧18](http://xh.5156edu.com/html3/21374.html)  [劀14](http://xh.5156edu.com/html3/2063.html) | | Gua 3 | [冎5](http://xh.5156edu.com/html3/2555.html)  [叧5](http://xh.5156edu.com/html3/5379.html)  [呱8](http://xh.5156edu.com/html3/5487.html)  [剐9](http://xh.5156edu.com/html3/2010.html)[剮10](http://xh.5156edu.com/html3/2035.html)  [寡14](http://xh.5156edu.com/html3/6317.html) | | Gua 4 | [卦8](http://xh.5156edu.com/html3/1870.html)[诖8](http://xh.5156edu.com/html3/3483.html)[挂9](http://xh.5156edu.com/html3/7686.html)[掛11](http://xh.5156edu.com/html3/7840.html)[啩11](http://xh.5156edu.com/html3/5746.html)[罣11](http://xh.5156edu.com/html3/15786.html)[絓12](http://xh.5156edu.com/html3/17219.html)[詿13](http://xh.5156edu.com/html3/18762.html)[褂13](http://xh.5156edu.com/html3/16118.html)  [坬8](http://xh.5156edu.com/html3/9509.html) | | ？ | [颪12](http://xh.5156edu.com/html3/20784.html) | |

**Guai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [乖8](http://xh.5156edu.com/html3/1658.html)[叏5](http://xh.5156edu.com/html3/3597.html)[拐8](http://xh.5156edu.com/html3/7630.html)[怪8](http://xh.5156edu.com/html3/10050.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Guai 1 | [乖8](http://xh.5156edu.com/html3/1658.html)  [摑13](http://xh.5156edu.com/html3/7994.html) |
| Guai 2 | [叏5](http://xh.5156edu.com/html3/3597.html) |
| Guai 3 | [拐8](http://xh.5156edu.com/html3/7630.html)[柺9](http://xh.5156edu.com/html3/11593.html)[枴9](http://xh.5156edu.com/html3/11609.html)[箉14](http://xh.5156edu.com/html3/17900.html)  [柺9](http://xh.5156edu.com/html3/11593.html)[枴9](http://xh.5156edu.com/html3/11609.html)[箉14](http://xh.5156edu.com/html3/17900.html)  [罫13](http://xh.5156edu.com/html3/15796.html) |
| Guai 4 | [夬4](http://xh.5156edu.com/html3/4930.html)  [怪8](http://xh.5156edu.com/html3/10050.html)  [恠9](http://xh.5156edu.com/html3/10111.html) |

**Guan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [关6](http://xh.5156edu.com/html3/2496.html) [管14](http://xh.5156edu.com/html3/17876.html)[惯11](http://xh.5156edu.com/html3/10177.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Guan1 | [关6](http://xh.5156edu.com/html3/2496.html)  [观6](http://xh.5156edu.com/html3/11297.html)[覌9](http://xh.5156edu.com/html3/18458.html)  [纶7](http://xh.5156edu.com/html3/9274.html)  [官8](http://xh.5156edu.com/html3/6244.html)[倌10](http://xh.5156edu.com/html3/3024.html)[棺12](http://xh.5156edu.com/html3/11828.html)  [冠9](http://xh.5156edu.com/html3/2673.html)[莞10](http://xh.5156edu.com/html3/3867.html)[蒄12](http://xh.5156edu.com/html3/4107.html)  [矜9](http://xh.5156edu.com/html3/14782.html)  [窤13](http://xh.5156edu.com/html3/15969.html)  [関14](http://xh.5156edu.com/html3/20316.html)[闗18](http://xh.5156edu.com/html3/20362.html)[關19](http://xh.5156edu.com/html3/20367.html)  [瘝15](http://xh.5156edu.com/html3/15224.html)[鳏18](http://xh.5156edu.com/html3/20606.html)[鰥21](http://xh.5156edu.com/html3/22078.html)  [癏18](http://xh.5156edu.com/html3/15278.html)[鱞24](http://xh.5156edu.com/html3/22145.html)  [観18](http://xh.5156edu.com/html3/18497.html)[觀24](http://xh.5156edu.com/html3/18510.html) | | Guan3 | [莞10](http://xh.5156edu.com/html3/3867.html)[筦13](http://xh.5156edu.com/html3/17842.html)  [馆11](http://xh.5156edu.com/html3/7483.html)[琯12](http://xh.5156edu.com/html3/13417.html)[痯13](http://xh.5156edu.com/html3/15176.html)[管14](http://xh.5156edu.com/html3/17876.html)[輨15](http://xh.5156edu.com/html3/18341.html)[錧16](http://xh.5156edu.com/html3/19956.html)[館16](http://xh.5156edu.com/html3/20463.html)[舘16](http://xh.5156edu.com/html3/17141.html)[鳤22](http://xh.5156edu.com/html3/20629.html)  [璭16](http://xh.5156edu.com/html3/13538.html) | | Guan4 | [卝4](http://xh.5156edu.com/html3/1604.html)  [毌4](http://xh.5156edu.com/html3/13620.html)  [丱5](http://xh.5156edu.com/html3/1620.html)  [观6](http://xh.5156edu.com/html3/11297.html)  [串7](http://xh.5156edu.com/html3/1622.html)  [贯8](http://xh.5156edu.com/html3/10517.html)[掼11](http://xh.5156edu.com/html3/7805.html)[惯11](http://xh.5156edu.com/html3/10177.html)[貫11](http://xh.5156edu.com/html3/18124.html)[慣14](http://xh.5156edu.com/html3/10304.html)[摜14](http://xh.5156edu.com/html3/8040.html)[遦14](http://xh.5156edu.com/html3/4869.html)[樌15](http://xh.5156edu.com/html3/12153.html)[罆17](http://xh.5156edu.com/html3/16839.html)[躀18](http://xh.5156edu.com/html3/19490.html)[鏆19](http://xh.5156edu.com/html3/20120.html)  [泴9](http://xh.5156edu.com/html3/13203.html)[盥16](http://xh.5156edu.com/html3/14826.html)  [冠9](http://xh.5156edu.com/html3/2673.html)  [涫11](http://xh.5156edu.com/html3/8581.html)[悺11](http://xh.5156edu.com/html3/10198.html)[悹12](http://xh.5156edu.com/html3/13708.html)  [祼12](http://xh.5156edu.com/html3/13058.html)  [潅14](http://xh.5156edu.com/html3/8956.html)  [雚17](http://xh.5156edu.com/html3/20766.html)  [灌20](http://xh.5156edu.com/html3/9201.html)[瓘21](http://xh.5156edu.com/html3/13588.html)[爟21](http://xh.5156edu.com/html3/11278.html)[矔22](http://xh.5156edu.com/html3/15072.html)[鹳22](http://xh.5156edu.com/html3/15391.html)[礶22](http://xh.5156edu.com/html3/15741.html)[罐23](http://xh.5156edu.com/html3/16849.html)[鑵25](http://xh.5156edu.com/html3/20255.html)[鸛28](http://xh.5156edu.com/html3/21868.html)[鱹28](http://xh.5156edu.com/html3/22161.html)  [欟28](http://xh.5156edu.com/html3/12417.html) | |

**Guang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [光6](http://xh.5156edu.com/html3/2091.html) [广3](http://xh.5156edu.com/html3/5099.html)[逛10](http://xh.5156edu.com/html3/4774.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Guang 1 | [3](http://xh.5156edu.com/html3/22481.html)  [光6](http://xh.5156edu.com/html3/2091.html)[茪9](http://xh.5156edu.com/html3/3842.html)[咣9](http://xh.5156edu.com/html3/5553.html)[姯9](http://xh.5156edu.com/html3/6473.html)[洸9](http://xh.5156edu.com/html3/8409.html)[垙9](http://xh.5156edu.com/html3/9564.html)[烡10](http://xh.5156edu.com/html3/10989.html)[桄10](http://xh.5156edu.com/html3/11647.html)[珖10](http://xh.5156edu.com/html3/13364.html)[胱10](http://xh.5156edu.com/html3/13939.html)[輄13](http://xh.5156edu.com/html3/18316.html)  [銧14](http://xh.5156edu.com/html3/19827.html)[黆15](http://xh.5156edu.com/html3/21480.html)  [灮6](http://xh.5156edu.com/html3/10889.html)  [炗8](http://xh.5156edu.com/html3/10923.html)[炚8](http://xh.5156edu.com/html3/10924.html)[炛8](http://xh.5156edu.com/html3/10925.html)  [僙13](http://xh.5156edu.com/html3/3221.html)[銧14](http://xh.5156edu.com/html3/19827.html)[黆15](http://xh.5156edu.com/html3/21480.html) |
| Guang3 | [广3](http://xh.5156edu.com/html3/5099.html)[広5](http://xh.5156edu.com/html3/5101.html)[犷6](http://xh.5156edu.com/html3/6822.html)[廣14](http://xh.5156edu.com/html3/5185.html)[獷17](http://xh.5156edu.com/html3/7001.html)  [臩18](http://xh.5156edu.com/html3/16271.html) |
| Guang4 | [俇9](http://xh.5156edu.com/html3/2993.html)[逛10](http://xh.5156edu.com/html3/4774.html)  [桄10](http://xh.5156edu.com/html3/11647.html)  [臦13](http://xh.5156edu.com/html3/16268.html) |

**Gui**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [归5](http://xh.5156edu.com/html3/5222.html) [鬼9](http://xh.5156edu.com/html3/20964.html)[贵9](http://xh.5156edu.com/html3/10531.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Gui 1 | [归5](http://xh.5156edu.com/html3/5222.html)  [圭6](http://xh.5156edu.com/html3/9429.html)[邽8](http://xh.5156edu.com/html3/2252.html)[茥9](http://xh.5156edu.com/html3/3843.html)[闺9](http://xh.5156edu.com/html3/6189.html)[胿10](http://xh.5156edu.com/html3/13972.html)[珪10](http://xh.5156edu.com/html3/13358.html)[硅11](http://xh.5156edu.com/html3/15499.html)[袿11](http://xh.5156edu.com/html3/16077.html)[郌13](http://xh.5156edu.com/html3/19079.html)[閨14](http://xh.5156edu.com/html3/20310.html)[鲑14](http://xh.5156edu.com/html3/20547.html)[鮭17](http://xh.5156edu.com/html3/21943.html)  [妫7](http://xh.5156edu.com/html3/6367.html)[媯12](http://xh.5156edu.com/html3/6623.html)[嬀15](http://xh.5156edu.com/html3/6735.html)  [龟7](http://xh.5156edu.com/html3/1939.html)[亀11](http://xh.5156edu.com/html3/1949.html)  [规8](http://xh.5156edu.com/html3/11299.html)[規11](http://xh.5156edu.com/html3/18461.html)[椝12](http://xh.5156edu.com/html3/11879.html)[摫14](http://xh.5156edu.com/html3/8052.html)[嫢14](http://xh.5156edu.com/html3/6717.html)[槼15](http://xh.5156edu.com/html3/12157.html)[槻15](http://xh.5156edu.com/html3/12156.html)[瞡16](http://xh.5156edu.com/html3/15023.html)[鬶18](http://xh.5156edu.com/html3/21278.html)[鬹21](http://xh.5156edu.com/html3/21282.html)  [皈9](http://xh.5156edu.com/html3/14240.html)  [帰10](http://xh.5156edu.com/html3/5286.html)[歸18](http://xh.5156edu.com/html3/14227.html)[蘬21](http://xh.5156edu.com/html3/4567.html)  [廆12](http://xh.5156edu.com/html3/5169.html)[瑰13](http://xh.5156edu.com/html3/13453.html)[騩19](http://xh.5156edu.com/html3/21405.html)  [龜16](http://xh.5156edu.com/html3/1609.html)  [璝16](http://xh.5156edu.com/html3/13537.html)  [雟18](http://xh.5156edu.com/html3/20774.html)[嶲18](http://xh.5156edu.com/html3/7352.html)  [瓌20](http://xh.5156edu.com/html3/13585.html) | | Gui 3 | [宄5](http://xh.5156edu.com/html3/6222.html)[氿5](http://xh.5156edu.com/html3/8225.html)[轨6](http://xh.5156edu.com/html3/10632.html)[匦8](http://xh.5156edu.com/html3/2142.html)[軌9](http://xh.5156edu.com/html3/18256.html)[匭11](http://xh.5156edu.com/html3/2153.html)  [庋7](http://xh.5156edu.com/html3/5109.html)[攱9](http://xh.5156edu.com/html3/14202.html)[庪10](http://xh.5156edu.com/html3/5145.html)  [陒8](http://xh.5156edu.com/html3/2271.html)[佹8](http://xh.5156edu.com/html3/2892.html)[诡8](http://xh.5156edu.com/html3/3484.html)[姽9](http://xh.5156edu.com/html3/6443.html)[垝9](http://xh.5156edu.com/html3/9538.html)[恑9](http://xh.5156edu.com/html3/10116.html)[祪10](http://xh.5156edu.com/html3/13042.html)[蛫12](http://xh.5156edu.com/html3/16404.html)[觤13](http://xh.5156edu.com/html3/18529.html)[詭13](http://xh.5156edu.com/html3/18774.html)  [癸9](http://xh.5156edu.com/html3/14283.html)[湀12](http://xh.5156edu.com/html3/8761.html)  [鬼9](http://xh.5156edu.com/html3/20964.html)  [晷12](http://xh.5156edu.com/html3/12859.html)[厬14](http://xh.5156edu.com/html3/1921.html)  [簋17](http://xh.5156edu.com/html3/14829.html)  [蟡18](http://xh.5156edu.com/html3/16644.html) | | Gui 4 | [攰6](http://xh.5156edu.com/html3/14201.html)  [昋8](http://xh.5156edu.com/html3/12769.html)  [刿8](http://xh.5156edu.com/html3/1995.html)[刽8](http://xh.5156edu.com/html3/1996.html)  [炅8](http://xh.5156edu.com/html3/10909.html)  [炔8](http://xh.5156edu.com/html3/10910.html)  [柜8](http://xh.5156edu.com/html3/11482.html)[桂10](http://xh.5156edu.com/html3/11648.html)[桧10](http://xh.5156edu.com/html3/11649.html)[椢12](http://xh.5156edu.com/html3/11898.html)[槶15](http://xh.5156edu.com/html3/12155.html)  [贵9](http://xh.5156edu.com/html3/10531.html)[貴12](http://xh.5156edu.com/html3/18133.html)[瞆14](http://xh.5156edu.com/html3/14976.html)[撌15](http://xh.5156edu.com/html3/8107.html)[樻16](http://xh.5156edu.com/html3/12240.html)[瞶17](http://xh.5156edu.com/html3/15036.html)[櫃18](http://xh.5156edu.com/html3/12312.html)[鐀20](http://xh.5156edu.com/html3/20176.html)[鞼21](http://xh.5156edu.com/html3/20906.html)[鑎22](http://xh.5156edu.com/html3/20224.html)  [猤12](http://xh.5156edu.com/html3/6946.html)  [筀12](http://xh.5156edu.com/html3/17811.html)  [跪13](http://xh.5156edu.com/html3/19360.html)  [蓕13](http://xh.5156edu.com/html3/4214.html)  [螝15](http://xh.5156edu.com/html3/16536.html)  [劌15](http://xh.5156edu.com/html3/2069.html)[劊15](http://xh.5156edu.com/html3/2072.html)  [檜17](http://xh.5156edu.com/html3/12281.html)[禬17](http://xh.5156edu.com/html3/13105.html)[癐18](http://xh.5156edu.com/html3/15279.html)[襘18](http://xh.5156edu.com/html3/16209.html)  [鳜20](http://xh.5156edu.com/html3/20621.html)[鱖23](http://xh.5156edu.com/html3/22121.html)[鱥24](http://xh.5156edu.com/html3/22135.html) | | ？ | [櫷20](http://xh.5156edu.com/html3/12376.html) | |

**Gun**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [滾14](http://xh.5156edu.com/html3/8942.html)[棍12](http://xh.5156edu.com/html3/11829.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Gun 3 | [丨1](http://xh.5156edu.com/html3/1612.html)  [衮10](http://xh.5156edu.com/html3/22424.html)[袞11](http://xh.5156edu.com/html3/25581.html)[蓘13](http://xh.5156edu.com/html3/4215.html)[滚13](http://xh.5156edu.com/html3/8809.html)[滾14](http://xh.5156edu.com/html3/8942.html)[蔉14](http://xh.5156edu.com/html3/4295.html)[磙15](http://xh.5156edu.com/html3/15624.html)  [绲11](http://xh.5156edu.com/html3/9335.html)[惃11](http://xh.5156edu.com/html3/10199.html)[辊12](http://xh.5156edu.com/html3/10666.html)[棍12](http://xh.5156edu.com/html3/11829.html)[緄14](http://xh.5156edu.com/html3/17310.html)[輥15](http://xh.5156edu.com/html3/18337.html)  [緷15](http://xh.5156edu.com/html3/17380.html)  [鲧15](http://xh.5156edu.com/html3/20562.html)[鮌16](http://xh.5156edu.com/html3/21922.html)[鯀18](http://xh.5156edu.com/html3/21972.html) |
| Gun 4 | [棍12](http://xh.5156edu.com/html3/11829.html)  [睔13](http://xh.5156edu.com/html3/14961.html)  [謴18](http://xh.5156edu.com/html3/18970.html) |

**Guo**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [鍋16](http://xh.5156edu.com/html3/19928.html)[囯7](http://xh.5156edu.com/html3/9900.html)[果8](http://xh.5156edu.com/html3/11483.html)[过6](http://xh.5156edu.com/html3/4693.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Guo 1 | [过6](http://xh.5156edu.com/html3/4693.html)  [呙7](http://xh.5156edu.com/html3/5424.html)[涡10](http://xh.5156edu.com/html3/8491.html)[埚10](http://xh.5156edu.com/html3/9578.html)[锅12](http://xh.5156edu.com/html3/14610.html)  [咶9](http://xh.5156edu.com/html3/5554.html)[聒12](http://xh.5156edu.com/html3/16774.html)  [郭10](http://xh.5156edu.com/html3/2329.html)[墎13](http://xh.5156edu.com/html3/9747.html)  [堝11](http://xh.5156edu.com/html3/9641.html)[楇12](http://xh.5156edu.com/html3/11900.html)[瘑13](http://xh.5156edu.com/html3/15194.html)[濄14](http://xh.5156edu.com/html3/8938.html)[鍋16](http://xh.5156edu.com/html3/19928.html)  [啯11](http://xh.5156edu.com/html3/5691.html)[蝈14](http://xh.5156edu.com/html3/16451.html)[嘓14](http://xh.5156edu.com/html3/5921.html)[蟈17](http://xh.5156edu.com/html3/16623.html)  [猓11](http://xh.5156edu.com/html3/6920.html)  [崞11](http://xh.5156edu.com/html3/7170.html)  [鈛12](http://xh.5156edu.com/html3/19697.html)  [彉14](http://xh.5156edu.com/html3/5076.html)[彍17](http://xh.5156edu.com/html3/5082.html)  [懖18](http://xh.5156edu.com/html3/13786.html) | | Guo 2 | [囯7](http://xh.5156edu.com/html3/9900.html)[国8](http://xh.5156edu.com/html3/9910.html)[囶8](http://xh.5156edu.com/html3/9914.html)[囻8](http://xh.5156edu.com/html3/9915.html)[圀9](http://xh.5156edu.com/html3/9919.html)[國11](http://xh.5156edu.com/html3/9929.html)[帼11](http://xh.5156edu.com/html3/5289.html)[掴11](http://xh.5156edu.com/html3/7806.html)[腘12](http://xh.5156edu.com/html3/14021.html)[漍14](http://xh.5156edu.com/html3/8904.html)[幗14](http://xh.5156edu.com/html3/5326.html)[蔮14](http://xh.5156edu.com/html3/4296.html)[慖14](http://xh.5156edu.com/html3/10309.html)[膕15](http://xh.5156edu.com/html3/14120.html)[簂17](http://xh.5156edu.com/html3/18004.html)  [聝14](http://xh.5156edu.com/html3/16787.html)  [虢15](http://xh.5156edu.com/html3/16875.html)  [馘17](http://xh.5156edu.com/html3/21008.html) | | Guo 3 | [果8](http://xh.5156edu.com/html3/11483.html)[菓11](http://xh.5156edu.com/html3/3956.html)[馃11](http://xh.5156edu.com/html3/7484.html)[淉11](http://xh.5156edu.com/html3/8645.html)[惈11](http://xh.5156edu.com/html3/10200.html)[褁12](http://xh.5156edu.com/html3/22496.html)[蜾14](http://xh.5156edu.com/html3/16452.html)[粿14](http://xh.5156edu.com/html3/17007.html)[綶14](http://xh.5156edu.com/html3/17330.html)[輠15](http://xh.5156edu.com/html3/18344.html)  [餜16](http://xh.5156edu.com/html3/20458.html)  [椁12](http://xh.5156edu.com/html3/11830.html)  [槨14](http://xh.5156edu.com/html3/12070.html)  [裹14](http://xh.5156edu.com/html3/17548.html) | | Guo 4 | [过6](http://xh.5156edu.com/html3/4693.html)[過11](http://xh.5156edu.com/html3/4808.html)  [腂12](http://xh.5156edu.com/html3/14045.html)  [鐹19](http://xh.5156edu.com/html3/20121.html) | |

**Chinese-western knowledge fusion:**

**汉-英对应**

**Ga**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [伽7](http://xh.5156edu.com/html3/2839.html)[轧5](http://xh.5156edu.com/html3/10631.html)[嘎14](http://xh.5156edu.com/html3/5896.html)[尬7](http://xh.5156edu.com/html3/10428.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Ga 1

伽马射线gamma ray

嘎渣yellowish crust over the cured wound

Ga 2

轧stranding, to roll, to make friends

Ga 3

尕娃small girl

嘎子pet name for a lusty boy; badass

Ga 4

尴尬embarrassment, awkward

**Gai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [该8](http://xh.5156edu.com/html3/3481.html) [改7](http://xh.5156edu.com/html3/12548.html) [盖11](http://xh.5156edu.com/html3/14809.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gai 1

该must

该某某走it is one’s turn to move(棋语)

该死的damned, frigging, freaking, fricking

賅complete, full

言简意赅concise

Gai 3

改变to morph, to alter

to change one’s tone改变调门

to alter the military balance改变军事平衡

to morph the idea, mind changing改变思想

to budge on改变态度

to change one’s mind改变主意

改变数学公式的主语to change the subject of a formula:

Principles原则:

Use of the rules of reverses--- +加 vs -减; x\*乘 vs÷, /除;

Doing the same to both sides of the equation

等号两边同等对待

Worked examples实例:

Level 1 use one operation一步到位

*Make x the subject of y=x+3:*

Switch (swap) sides: x=3 = y (we require x by itself

on the left side)

Subtract 3 from both sides: x+3-3 = y-3

Simplify: x = y-3

*Make x the subject of y = 8x:*

Switch sides: 8x = y

Divide both sides by 8: 8x/8 = y/8

Simplify: x = y/8

(we can change figures in the equation into letters)

Level 2 use two operations两步到位

Make x the subject of y = 2x+5

Switch sides: 2x+5=y

Subtract 5 from both sides: 2x+5-5 = y-5

Simplify: 2x=y-5

Divide both sides by 2: 2x/2= y-5/2

Simplify: x = y-5/2

*Make x the subject of y = x/2+5:*

Switch sides: x/2+5 (fractions are more difficult to

Work with. So to make work easier and errors less

Likely, get rid of the fraction first)

Multiply everything on both sides by 2:

2(x/2) + 2(5) = 2(y)

Simplify: x+10=2y

Subtract 10 from both sides: x+10-10 = 2y-10

Simplify: x = 2y-10

Level 3 use three operations三步到位

*Make x the subject of y=3x/4 +5*

Switch sides: 3x/4+5 = y (remove fractions first;

Work without fractions; create fractions last)

Multiply everything on both sides by 4:

4(3x/4) + 4(5) = 4(y)

Simplify: 3x+20=4y

Subtract 20 from both sides:

3x+20-20=4y-20

Divide both sides by 3: 3x/3=4y-20/3

Simplify: x=4y-20/3

*Make x the subject of y=ex/s-h*

Switch sides: ex/s-h = y

Multiply everything on both sides by s:

s(ex/s) - s(h) = s(y)

Simplify: ex-sh=sy

Add sh to both sides: ex-sh+sh=sy+sh

Simplify: ex=sy+sh

Divide both sides by e: ex/e=(sy+sh)/e

Simplify: x= (sy+sh)/e

Level 4 multiply out bracket and two other operations

四步到位

*Make x the subject of y=2(x+5)*

Switch sides: 2(x+5)=y (multiply out brackets;

Work without fractions; create fractions last)

Multiply out brackets): expand brackets: 2(x)+2(5)=y

Simplify: 2x+10 = y

Subtract 10 from both sides: 2x+10-10=y-10

Simplify: 2x=y-10

Divide both sides by 2: 2x/2=(y-10)/2

Simplify: x=(y-10)/2

*Make x the subject of: y = a(x-b)*

Switch sides: a(x-b)=y

Multiply out brackets: a(x)-a(b)=y

Simplify: ax-ab=y

Add ab to both sides: ax-ab+ab=y+ab

Simplify: ax=y+ab

Divide both sides by a: ax/a=(y+ab)/a

Simplify: x=(y+ab)/a

Level 5 multiply out fractions, multiply out brackets,

and two other operations五步到位

*Make x the subject of : y=5(x+2)/7*

Switch sides: 5(x+2)/7=y (multiply out fractions;

multiply out brackets;work without fractions;

create fractions Last)

Multiply out fraction: multiply both sides by 7:

7[5(x+2)/7] = 7[y]

Simplify:5(x+2)=7y

Multiply out brackets: 5(x)+5(2)=7y

Simplify: 5x+10=7y

Subtract 10 from both sides:5+10-10=7y-10

Simplify: 5x=7y-1-

Divide both sides y 5: 5x/5=(7y-10)/5

Simplify: x=(7y-10)/5

Make x the subject of: y=[w(x-t)]/h

Switch sides: [w(x-t)]/h = y

Multiply out fraction: multiply both sides by h:

h[w(x-t)/h] = h(y)

Simplify: w(x-t) = hy

Multiply out brackets: expand the bracket:

w(x)-w(t) = hy

Simplify: wx-tw=hy

Add tw to both sides: wx-tw+tw=hy+tw

Simplify: wx=hy+tw

Divide both sides by w: wx/w= (hy+tw)/w

Simplify: x = (hy+tw)/w

改革to crusade

crusader改革者

crusader claims victory改革者宣布胜利

trade crusade贸易改革

改观to transfigure

改进retrofit, refinement, to improve (your memory and brain power)

改进方法to revamp the way

改善betterment, to ameliorate

改写to rewrite

改装renovation

Gai 4

盖to seal, to build, to construct; cover, lid, shield

to build the house盖房子

under seal盖上公章

盖世无双incomparability, unparalled, unrivaled

概括to epitomize, to generalize

generalizable knowledge可概括的或可归纳的知识

概率， 几率，然率probability --- which quantifies the extent of uncertainty inherent in the conclusion and inferences, it is expressed by P(a) =

0 0.25 0.5 0.75 1 (用数字表示)

improbable unlikely even chance likely certain (用英语表示)

不可能 不是不可能 机会均等(均值) 很可能 完全可能 (用汉语表示)

P(s) = number of successful outcomes ÷ total number of equally likely outcomes

= r / n (用公式表示)

大数法则law of large numbers

中心极限定理central limit theorem

反应概率reaction probability

概略的, 写生的sketchy

概念concept

to conceptualize概念化

proof-of-concept概念论证

notional agreement vs grammatical agreement概念一致

Conceptual science概念科学

概述to encapsulate

概要，大纲synopsis

**Gan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [甘5](http://xh.5156edu.com/html3/14289.html) [感13](http://xh.5156edu.com/html3/13717.html)[幹13](http://xh.5156edu.com/html3/22232.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gan 1

肝liver, hepatic

The liver is a large, meaty organ that sits on the right side of the belly.

The liver's main job is to filter the blood coming from the digestive tract,

before passing it to the rest of the body. The liver also detoxifies chemicals

and metabolizes drugs. As it does so, the liver secretes bile that ends up

back in the intestines. The liver also makes proteins important for blood

clotting and other functions.

Liver diseases:肝病

Cirrhosis肝硬化

Hepatic necrosis肝坏死

Hepatitis肝炎

Liver cancer肝癌

Liver failure肝功能衰竭

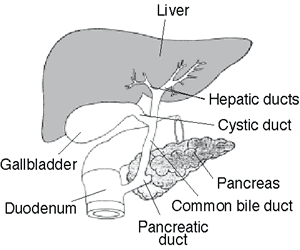
Ascites腹水

Gallstones胆结石

Hemachromatosis血色沉着病

Primary sclerosing cholangitis原发性硬化性胆管炎

Primary biliary cirrhosis原发性胆汁性肝硬化



肝功能hepatic function

SGOT---serum glutamic-oxaloacetic transaminase血清谷-草转氨酶

SGPT---serum glutamic-pyruvic transaminase血清谷-丙转氨酶

### 肝脏保护 Hepatoprotective Effects

Liver function is compromised in older adults, and this can affect the health and quality of life of the individual. Animal studies with laboratory mice showed that [Triphala](https://www.sciencedirect.com/topics/medicine-and-dentistry/triphala" \o "Learn more about Triphala from ScienceDirect's AI-generated Topic Pages)三果宝 was effective in ameliorating改善 acetaminophen-induced醋氨酚引发的 [liver toxicity](https://www.sciencedirect.com/topics/medicine-and-dentistry/liver-toxicity" \o "Learn more about Liver Toxicity from ScienceDirect's AI-generated Topic Pages) . Mechanistic studies indicate that administration of Triphala reduced the levels of pro-inflammatory cytokines细胞因子 [TNF-α](https://www.sciencedirect.com/topics/medicine-and-dentistry/tumor-necrosis-factor" \o "Learn more about Tumor Necrosis Factor from ScienceDirect's AI-generated Topic Pages)肿瘤坏死因子 and [lipid peroxides](https://www.sciencedirect.com/topics/medicine-and-dentistry/lipid-peroxide" \o "Learn more about Lipid Peroxide from ScienceDirect's AI-generated Topic Pages)脂质过氧化物; restored the levels of free [glutathione](https://www.sciencedirect.com/topics/medicine-and-dentistry/glutathione" \o "Learn more about Glutathione from ScienceDirect's AI-generated Topic Pages)谷胱甘肽 and the antioxidant enzymes superoxide dismutase超氧化物歧化酶, [catalase](https://www.sciencedirect.com/topics/medicine-and-dentistry/catalase" \o "Learn more about Catalase from ScienceDirect's AI-generated Topic Pages)过氧化氢酶, [gluthathione peroxidase](https://www.sciencedirect.com/topics/medicine-and-dentistry/glutathione-peroxidase" \o "Learn more about Glutathione Peroxidase from ScienceDirect's AI-generated Topic Pages), [gluthathione reductase](https://www.sciencedirect.com/topics/medicine-and-dentistry/glutathione-reductase" \o "Learn more about Glutathione Reductase from ScienceDirect's AI-generated Topic Pages)还原酶, and [gluthathione S-transferase](https://www.sciencedirect.com/topics/medicine-and-dentistry/glutathione-s-transferase" \o "Learn more about Glutathione S-Transferase from ScienceDirect's AI-generated Topic Pages)谷胱甘肽硫转移酶; and decreased the level of hepatic damage as observed by lower levels of the [biochemical markers](https://www.sciencedirect.com/topics/medicine-and-dentistry/biochemical-marker" \o "Learn more about Biochemical Marker from ScienceDirect's AI-generated Topic Pages) [alkaline phosphatase](https://www.sciencedirect.com/topics/medicine-and-dentistry/alkaline-phosphatase" \o "Learn more about Alkaline Phosphatase from ScienceDirect's AI-generated Topic Pages)碱性磷酸酶, [alanine aminotransferase](https://www.sciencedirect.com/topics/medicine-and-dentistry/alanine-aminotransferase" \o "Learn more about Alanine Aminotransferase from ScienceDirect's AI-generated Topic Pages)丙氨酸氨基酸转移酶, and [aspartate天门冬氨酸 aminotransferase](https://www.sciencedirect.com/topics/medicine-and-dentistry/aspartate-aminotransferase" \o "Learn more about Aspartate Aminotransferase from ScienceDirect's AI-generated Topic Pages), as confirmed by histopathological组织病理学 observations

肝的四大作用

1. 生化作用biochemical function: toxic ammonia can be synthesized into urea being secreted out.

Toxic substances can be changed into nontoxic substances by means of combining with glucuronic acid, sulfuric acid, amino acid.

1. 分泌作用secretion function: Mercury is secreted with bile.
2. 蓄积作用cumulative function: brucine 番禾鳖宁,cinchonine 弱金鸡钠碱,colchicine

秋水仙碱,morpholine 吗啉,quinine 奎宁,strychnine 土的宁,veratrine藜芦碱

1. 吞噬作用phagocytosis function: kupffer’s cells枯否氏细胞 can remove bacteria,

foreign matters, dead red cells Existing in blood sinus.

肝切除heptatectomy

肝肾综合症hepatorenal syndrome

肝素heparin

肝吸虫liver fluke

肝小叶hepatic lobule

肝炎hepatitis

hepatitis A甲肝(spreading via fecal-oral route)

hepatitis B乙肝 (spreading through intimate contact and transfer of body fluid)

肝硬化hepatocirrhosis， liver cirrhosis

干杯cheerio, to toast

干草堆haystack

干草捆hay bales

干粘性aggressive tack

干扰to jam, countermeasure

signal jamming干扰信号

干扰素interferon, which is a strong antirival有效的抗病毒药物

干热岩，地热能hot dry rock

干涉to meddle in, to interfere with

干香菇粉(=味精) dried shii-take powder,which is composed of glutamic acid谷氨酸,

Aspartic acid天冬氨酸, free amino acid游离氨基酸, ergot alcohol, nicotinic acid,

Protein 蛋白质, Calcium, iron, zinc, selenium

干支(天干地支缩略)，花甲sexagenary cycle (60年一循环)

阳历末位数 农历天干字 农历地支属相 举例说明

0 庚 子鼠 2020，庚子年，属鼠 (依次下推)

1 辛 丑牛

2 壬 寅虎

3 癸 卯兔

4 甲 辰龙

5 乙 巳蛇

6 丙 午马

7 丁 未羊

8 戊 申猴

9 己 酉鸡

0 庚 戌狗 (10年后返回0末阳历年)

1 辛 亥猪

(...60年后返回农历庚子鼠年)

杆，竿pole

high-mast高杆

尴尬embarrassment, awkwardness

awkward quips尴尬的说道

embarrassing mess尴尬的困境

甘草licorice

甘蓝菜kale

Gan 3

赶出eviction, to kick sb out(of some place)

(把某人)赶出去to stomp sb out of existence

赶集go-to-market

赶紧to hustle along

赶路到天黑benighted

赶死to hasten one’s demise

赶时间to run down the clock

赶时髦to hop on the bandwagon

赶时髦的人fastionista, hipster

赶走to swat away

感sensation:

Sourness酸感

Numbness麻感

Distension胀感

Pricking or tingle sensation刺感

-感sense of

sense of deja vu 记忆幻觉感

Sense of sight

Sense of smell

Sense of hearing

Sense of taste

Sense of touch

sense of wonder好奇感，惊奇感

感到光滑to feel glossy

感到宽慰to take solace

感到困惑at fault

感到羞耻to be shamed of

感到to feel...

angry愤怒

appalled 震惊

at ease舒适

at fault困惑

embarrassed尴尬

hopeful有望

nuanced 微妙

proud骄傲

shamed羞愧

感到无能为力to feel powerless

感到无礼to feel disrespected

感光度测定法sensitometry

感激beholden to special interest

感觉 feeling, sense

deja vu似曾相识的感觉, 记忆幻觉

imperceptible tweak(扭曲) 感觉不到的

insensitivity感觉迟钝

to feel the pinch(拮据) 感觉手头紧

to feel slighted感觉受到轻视

感觉异常paresthesia

感觉运动技巧sensorimotor skill

感冒cold

common cold普通感冒

stomach flu 肠胃感冒

**Influenzal epidemic流行性感冒** which is a viral infection that mainly attacks the

respiratory system (nose, sinuses, throat and lungs) 是一种病毒感染，主要伤害

呼吸系统 (鼻，腔，喉，肺)

How to treat epidemic flu如何治疗流感

**remedies偏方:**

1. Take a rest休息
2. Stay hydrated多喝水
3. Take a vitamin C supplement (megadose of VC) 吃大量维生素C
4. Clear mucus from the nose with a neti pot or using saline spray 用洗鼻壶或盐水清理鼻液
5. Use a heating pad使用电热垫
6. Relieve fever symptoms with a cool cloth 用凉布减轻发烧证候
7. Gargle with salt water用盐水漱口
8. Try some herbal remedy采用草药偏方
9. Try a eucalytus steam treatment用桉叶气蒸

**Medicine药:**

1. Buy over-the-counter medicine购买非处方药:

non-steroid anti inflammatory drugs (ibuprofen, aspirin) 非甾体抗炎药(如布洛芬，阿司匹林)

fever and pain reliever (tylenol) 缓解发烧和疼痛的药 (如泰勒诺)

expectorant and cough suppressant (dextromethorphan) 化痰和止咳药 (如右美沙芬)

1. Take prescription medication 服用处方药：
2. oseltamivir (tamiflu) taken orally 口服奥斯塔米韦 (特敏福)
3. Zanamivir (relenza) inhaled 吸入扎那米韦
4. Peramivir (vapivab) vir IV 静脉注射帕拉米韦
5. Amantadine (symmetrel) 金刚烷胺
6. Rimantadine (flumadine) 金刚烷乙胺treat influenza A, kill H1N1可治甲型流感，

杀死H1N1病毒

感情emotion

sentient有感情的

effusive感情横溢的

emotionally-charged issue感情色彩的问题

感情化to sentimentalize

感情领域affective domain

感情伤疤emotional scar

感染to contract

contractable(可)感染的

He contracted COVID-19他感染上了新冠肺炎

infection rate, prevalence of infection感染率

R0--- R-nought 感染率=传染率

感人的heart-warming

感同身受empathic

感谢thanks, grateful (to)

Thank you from the bottom of my heart衷心感谢

In a nod to作为对某某的感谢

感谢信thank-you note

感谢之意as a token of one’s thanks

感言testimonial

获奖感言acceptance speech

橄榄球头盔football helmet

橄榄球协会football league:

American football league

National football league

Gan 4

干，做 to fare

干成某事to manage to do

Only I can fix. (只有我能)干(成)

干蠢事to play the giddy ox

干坏事to perpetrate

干跑腿的活儿to do the legwork

干事像勾结It walks like collusion and

It talks like collusion说话也像勾结

干涉to put a finger on, to meddle in 干预

干细胞stem cell

induced pluripotent stem cell诱导性多能干细胞

干线客机trunk liner， mainline aircraft

干预dirigime

干这种事to do stuff like this

干燥descication

**Gang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [冈4](http://xh.5156edu.com/html3/2546.html) [港12](http://xh.5156edu.com/html3/8689.html)[杠7](http://xh.5156edu.com/html3/11436.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gang 1

冈ridge

刚刚被任命的人freshly-minted appointee

刚毕业，应届毕业recent graduate

刚参加工作recent employee

刚性rigidity, rigidness, stiffness

刚需rigid demand

纲举目张once the headrope is lifted, all meshes spread open,

a lucid exposition of essential points

纲要rundown,

钢百叶steel slats

钢管舞pole dance

钢筋水泥rebar and cement

钢琴岛piano island(鼓浪屿)

钢铁的steely

钢芯船体steel reinforced hull

肛门 anus

肛交anal sex

缸crock, jar, pot, urn

缸中之脑brain in a vat

Gang 3

港口seaport, airport

Gang 4

杠杆lever

抬杠to bicker

**Gao**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [高10](http://xh.5156edu.com/html3/21268.html) [稿15](http://xh.5156edu.com/html3/14428.html)[告7](http://xh.5156edu.com/html3/5423.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gao 1

皋riverside

睾丸testes, testicular

testosterone睾丸素

FDA-approved testosterone食品药物局批准的睾丸素

artificial testosterone can enhance libido睾丸素可增加性欲

(用)高昂的政治代价at a high political price

高超声速武器hypersonic weapon

高层次high-tier

高层酒店high-rise hotel

高产high yield

productive writer高产作家

高潮upsurge; crescendo

on the upswing正处于高潮

高额关税hefty tariff

hefty fee高额费用

高科技防御工事high-tech fortification

高调high profile; high-pitched vs low key

高档餐fancy diner

高档精品fancy boutiques

高动态范围（成像）HDR--high dynamic range (imaging)

高度表度数altimeter reading

高度关注highly scrutinized

高端high-end

high-end products高端产品

high-end art 高端艺术

high-stakes meeting高端会议

gee-whiz technology高端技术，惊奇技术

高分辨内容high-res content

高分子macromolecule Second, the presence of adsorbed PAA聚丙烯酸 can alter the apparent particle zeta potential剪切面电位l. Due to the nature of the molecular chain structure of the polymer, adsorption takes place in a loops, trains, and tails configuration . As the positive hematite赤铁矿 surface charge is balanced by adsorbed polymer segments被吸收的聚合物段, the unadsorbed segments carry a negative charge causing reversal of the apparent potential.

macromolecule protective coating高分保护涂料--- spray-on喷涂fastsetting快凝 coatings,dry in 5-10 seconds with extremely good adhesion to the substrates底物, which can reach the level of Ford-one made by Line-x in.

高风险考试high-stake test (GMAT, GRE, SAT)

high-stake posturing高风险姿态

高风险外交high-stakes diplomacy

高钙尿症hypercalcuria vs hypocalcuria低钙尿症

(根特高的)高跟鞋sky-high heels

高官dignitary

高光谱图像数据superspectral image data

高级持续性威胁APT--- advanced persistent threat(to network)

Project Sauron (源于眼型恒星eye of sauron)

Careto

Dugu

Equation

Flame

Regin

(they are on par with each other同等水平)

高级班advanced class:

AP---advanced placement大学预修课程

Honors 荣誉课程

高级会员premium member

高级脂肪酸higher aliphatic acid

高级研究计划局(美国国防部) DARPA(DOD)---defense advanced project agency

(互联网创始者，现正在搞flying piloted mother ship)

高价的pricey, at a premium price

高价股票high flyer

高脚杯goblet

高阶（数学）high order

higher derivative高阶导数

高净值high-net-worth

高空作业的建筑工人spiderman

高粱sorghum

高龄ripe old age

高磷血症hyperphosphatemia

高楼high-rise building

高面额纸币high denomination note

高面值纸币high currency note

高摩擦力甲板涂料high-friction deck coating

高粘滞血症blood hyperviscosity

高炮打蚊子killing a mosquito with a canon

高品位high-touch

高强度训练HIT--- highly intensive training

高清HD--- high definition

高清格式in high definition

高清照相机HD camera

HD photo高清照片

HD video高清录像

高墙精英院子high-walled elite compound

高射炮archibald, AAA-- anti-aircraft artillery

高声喊叫的人群chanting crowds

高声喧嚷full-throated

高盛Goldman sacks group inc.

高斯（Johann Carl Friedrich）Gauss (1777-1855)

[](http://www-history.mcs.st-and.ac.uk/PictDisplay/Gauss.html)

Gaussian distribution高斯分布

Gaussian function高斯函数

Gauss’ law 高斯定律

gauss磁通量密度单位

GPLV---Gaussian process latent variable 高斯过程隐变量

高思维hi touch vs hi tech 高科技

高速城市化breakneck urbanization

高速缓冲存储器cached memory

高速赛车dragster

高速移动flitting

高铁bullet train高速列车

高手geek, hotshot

高尚的请求high-minded plea

高尚的人soulful fellow

高渗性间发流体hypertonic interstitial fluid

高盛投资公司Goldman Sacks

高耸的郑成功雕像towering statue of zheng chenggong

高斯Gauss

gaussian elimination method高斯消元法

高谈阔论high-sounding words

高通(美国) Gualcomm (smart phone microchip maker)

高效促溶标签蛋白 spycatcher

高薪fat salary

高兴glad, excited

to fly with joy高兴地跳起来

(使)高兴to cheer sb, to flatter

高学历的highly educated

高血钙症hypercalcemia vs hypocalcemia低血钙症

高血压hypertension, high blood pressure

Systolic or top收缩压

Diastlic or bottom舒张压

高血脂症hyperlipidemia vs hypolipidemia低血脂

高压的high-handed

高引学者highly cited researcher (scientist)--- the world most influential researcher

high citation rate高引用率

高原plateau

高瞻远瞩to look far ahead and aim high

高招up one’s sleeve

高曾祖父great-great-grandfather

高中毕业high school diploma

GED--- general education development certificate高中毕业证书

Gao 3

搞臭to get the dirt on sb

搞经济to run an economy

搞乱to gum up, to get muddled up

搞清楚...意思to make sense of...

to hammer the point home把观点搞清楚

搞什么鬼what the heck

搞砸了to mess it up, to screw up

搞糟了to bungle, fuck-up搞坏了

搞专栏to do the op-ed

稿draft, manuscript

稿费payment for article or book, royalty from an article or book

杲bright

Gao 4

告别to bid sb farewell, to bid farewell to sb

告吹, 泡汤， 失败to fizzle out

告发to rat on

告发者whistle-blower 检举者

告诫to admonish sb

告密，告发to snitch

告诉别人to tell a soul

**Ge**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [歌14](http://xh.5156edu.com/html3/12683.html)[革9](http://xh.5156edu.com/html3/20820.html)[各6](http://xh.5156edu.com/html3/5385.html)[个3](http://xh.5156edu.com/html3/2697.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Ge 1

哥brother

表哥cousin, elder male cousin

大哥elder brother

哥伦比亚Columbia

哥伦布Columbus

哥本哈根Copenhagen

歌词lyrics

歌手singer

rapper说唱歌手

歌颂to pay tribute to

歌颂为英雄to eulogize as a hero

搁浅to run aground, to ground, to strand, on hold

(使...)搁浅to strand at the hotel

搁置to (mentally) shelve sth

搁置不管，扔弃to toss aside

搁置分歧to put aside and diffuse differences

搁置争议to shelve the dispute

割断to sever relationship with...

割据to bulkanize

割线secant正割 vs tengent 切线=正切

胳肢窝armpit腋窝

咯咯笑to giggle

Ge 2

革leather, to change

革命revolution

revolutional

revolutionist

to revolutionize

革新innovation, reformation

隔过to skim through, to skip through (浏览)

to skip a summit隔过峰会

隔离lockdown

under quarantine被隔离

格

absolutive道格

accusative 宾格

ergative 作格

nominative 主格

possessive所有格

格兰阳性Gram-positive vs Gram-negative

格林威治标准时间GMT---Greenwich mean time

格律诗metrical poems

格栅结构latticework, tukutuku pattern

格式，版式，开本format dos系统的一种命令，对磁盘进行格式化编写程序

主要格式：

FORMAT volume[/FS:file system] [/V:label] [/Q] [/A:size] [/C] [/X]

FORMAT volume [/V:label] [/Q] [/F:size]

FORMAT volume [/V:label] [/T:tracks /N: sectors]

FORMAT volume [/V:label] [/Q]

FORMAT volume[/Q]

主要参数：

Volume

/FS:file system

/V:label

/Q

/C

/X

/A:size

NTFS

FAT

FAT32

/F:size

/T:tracks

/N:sectors

其它用法：

“ /S”

“ /U”

格言adage, aphorism, dictum,maxim

格（理）论lattice theory 点阵理论

阁楼penthouse, loft

搁浅to ground, to strand

搁置to put on ice

to shelve the bill搁置该议案

鮯clam

葛根arrowroot

Ge 3

(自)个儿myself

(那人挺)个That person is special.

Ge 4

个a, each, every

个人崇拜personality cult

个人能力personal prowess

个人身份保护habeas corpus

个人证言personal testimony

个体发育ontogenesis

个体户sole proprietor

个体一号 = 特朗普总统individual-1

个体经营的self-employed

个性化治疗(对待)personalized treatment

各行各业all walks of life各界人士

各式各样的multifarious

各向异性的 anisotropic

各种意识形态ideological spectrum

各自付钱 to go dutch

**Gei**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [给9](http://xh.5156edu.com/html3/9309.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gei 3

给机会to afford the opportunity

给钱办某事to finance doing sth

给人深刻印象的jaw-dropping

给予安慰to offer comfort

给与打击to deal a blow

给予痛苦to inflict pain on...

给予乱处罚to mete out unjustified penalty

给予严厉处罚to mete out stiffer penalty

**Gen**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [根10](http://xh.5156edu.com/html3/11644.html)[哏9](http://xh.5156edu.com/html3/5552.html)[艮6](http://xh.5156edu.com/html3/16850.html)[亘6](http://xh.5156edu.com/html3/2120.html)

**号表法no.indicator:** 1 2 3 4

Gen 1

根root (化学中带+，- 号的离子，数学中的答案)

characteristic root固有根

根(数学) x2+21=10x x2-10x+21=0

如果x=3 , 那么32-30+21 则 9-30+21=o

如果x=7 , 那么72-70+21 则 49-70+21=o

x为“根”，0为“解”

根本谈不上out of the question不可能

根除腐败to eradicate corruption

to be eradicated domestically在国内被根除

根底bedrock 基本理论

根服务器root server

根际沉积rhizodeposition

根据具体情况on a case-by-case basis

根据需要on an as-needed basis

根深蒂固的ingrained, deep-seated

根式radical expression

称为根式，n称为[根指数](https://baike.baidu.com/item/%E6%A0%B9%E6%8C%87%E6%95%B0" \t "https://baike.baidu.com/item/%E6%A0%B9%E5%BC%8F/_blank)，a称为根底数。在[实数](https://baike.baidu.com/item/%E5%AE%9E%E6%95%B0" \t "https://baike.baidu.com/item/%E6%A0%B9%E5%BC%8F/_blank)范围内，[负数](https://baike.baidu.com/item/%E8%B4%9F%E6%95%B0" \t "https://baike.baidu.com/item/%E6%A0%B9%E5%BC%8F/_blank)不能开方，一个[正数](https://baike.baidu.com/item/%E6%AD%A3%E6%95%B0" \t "https://baike.baidu.com/item/%E6%A0%B9%E5%BC%8F/_blank)开偶次方有两个根，其[绝对值](https://baike.baidu.com/item/%E7%BB%9D%E5%AF%B9%E5%80%BC" \t "https://baike.baidu.com/item/%E6%A0%B9%E5%BC%8F/_blank)相等，符号相反。

根治性手术radical surgery

跟进问题follow-up questions

跟屁虫yesman, one’s shadow, wannabe

跟上 to keep abreast of

跟着走，跟着做to follow suit

跟踪to dog, to stalk (非法)跟踪

Chinese navy stalked the new Britain’s aircraft across the Pacific (2021,08)

to wear an electronic monitoring device around her ankle定位跟踪器

跟踪能力tractability

跟踪线索to pursue leads

跟踪野火to track wildfires

Gen 2

哏funny

Gen 3

艮tough, straightforward

hexagram gen艮卦

Gen 4

亘古及今since the dawn of history

**Geng**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [耕](http://xh.5156edu.com/html3/16905.html) [耿10](http://xh.5156edu.com/html3/16754.html)[更7](http://xh.5156edu.com/html3/13806.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Geng 1

更改名称to rebrand the Pacific command to Indo-pacific command

更正错误to fix the error

耕to plow, to till, to cultivate

庚子赔款boxer indemnity

赓续to continue

Geng 3

耿耿于怀to hold the grudge

梗，柄，茎，杆stalk

Geng 4

更不用说let alone, moreso

更惨的命运worse fate

更加关注to fuel concerns

更接近实际to hew closer to the truth

更快总是更好faster-is-always-better

更是如此doubly true

更新to refresh, to update

更新建议to update one’s advice

更致命的是more damningly

**Gong**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [工3](http://xh.5156edu.com/html3/5013.html) [汞7](http://xh.5156edu.com/html3/13192.html)[共6](http://xh.5156edu.com/html3/1761.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gong 1

工程engineering, project

engineer工程师

engineering hurdle工程障碍

工会union

to unionize加入工会，成立工会

工具tool

high-style tool新款工具

instrumentalization, to toolize工具化

tool bar工具栏

tool chest, toolkit,toolbox工具箱,工具包

tool tips工具提示

工头task master

工业industry

industrial behemoth工业巨头

工业产权(属于知识产权) industrial property:

patents专利

trade marks商标

industrial designs工业设计

mask works掩模作品(芯片)，线路布局

plant breeder’s right植物育种者权利

工艺大学polytechnic university

工艺品artefact

工资wage, salary, pay

well-paid高工资

Well-paying工资优厚的

on the payroll在工资表上

工作work

workwear工作服

back-breaking work非常难做的工作

工作流程workflow

工作所，工作室studio

工作台面counter top

工作效率低less productive at work

工作种类

Industrial work

Academic work

工作许可证work permit

弓bow, arch, arcus

弓箭bow and arror

弓形虫病toxoplasmosis

公报communique

公布to proclaim, to promulgate

公布名单to unveil a list of ...

to unveil the scheme公布方案

公断书award

公分母common denominator

lowest common denominator最小公分母

公愤furore

公告public notice，bulletin

公共交通工具public transport means:

Black cab黑色出租车

Bus公共汽车

Jeepney= mini-bus菲律宾的小型公共汽车

Red double-decker bus英国的红色双层公共汽车

Texis出租车

Yellow texis美国的黄车

public spectacle公共景观

公共论坛public fora

公共危机public meltdown

公共形象public persona

公共宣传public outreach

公关public relation

good publicity良好的公关形象

Public relation stunts公关表演

公爵duke

duchess 公爵夫人

公开overt vs covert 隐蔽

to recant公开认错

公开携带open-carry (of long blades)

公开信open letter

公开宣布to blaze

公开争吵public spat

公款public fund

公理axiom, truism;

postulate, assumption假定

theorem定理

corollary推论

公理列表list of axioms

This is a **list of [axioms](https://en.wikipedia.org/wiki/Axiom" \o "Axiom)** as that term is understood in [mathematics](https://en.wikipedia.org/wiki/Mathematics" \o "Mathematics), by Wikipedia page. In [epistemology](https://en.wikipedia.org/wiki/Epistemology" \o "Epistemology)认识论, the word *axiom* is understood differently; see [axiom](https://en.wikipedia.org/wiki/Axiom" \o "Axiom) and [self-evidence](https://en.wikipedia.org/wiki/Self-evidence" \o "Self-evidence)自明. Individual axioms are almost always part of a larger [axiomatic system](https://en.wikipedia.org/wiki/Axiomatic_system" \o "Axiomatic system)公理系统.

## Contents

* [1. ZF (the Zermelo–Fraenkel axioms without the axiom of choice)](https://en.wikipedia.org/wiki/List_of_axioms" \l "ZF_(the_Zermelo–Fraenkel_axioms_without_the_axiom_of_choice))
* [2. Axiom of choice](https://en.wikipedia.org/wiki/List_of_axioms" \l "Axiom_of_choice)
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  + [2.2Stronger than AC](https://en.wikipedia.org/wiki/List_of_axioms" \l "Stronger_than_AC)
  + [2.3Weaker than AC](https://en.wikipedia.org/wiki/List_of_axioms" \l "Weaker_than_AC)
  + [2.4Alternates incompatible with AC](https://en.wikipedia.org/wiki/List_of_axioms" \l "Alternates_incompatible_with_AC)
* [3. Other axioms of mathematical logic](https://en.wikipedia.org/wiki/List_of_axioms" \l "Other_axioms_of_mathematical_logic)
* [4. Geometry](https://en.wikipedia.org/wiki/List_of_axioms" \l "Geometry)
* [5. Other axioms](https://en.wikipedia.org/wiki/List_of_axioms" \l "Other_axioms)

## ZF (the [Zermelo–Fraenkel axioms](https://en.wikipedia.org/wiki/Zermelo%E2%80%93Fraenkel_axioms" \o "Zermelo–Fraenkel axioms) without the axiom of choice)

*Together with the axiom of choice (see below), these are the* [de facto](https://en.wikipedia.org/wiki/De_facto" \o "De facto) *standard axioms for contemporary [mathematics](https://en.wikipedia.org/wiki/Mathematics" \o "Mathematics) or [set theory](https://en.wikipedia.org/wiki/Set_theory" \o "Set theory). They can be easily adapted to analogous theories, such as [mereology](https://en.wikipedia.org/wiki/Mereology" \o "Mereology)分体逻辑学.*

* [Axiom of extensionality](https://en.wikipedia.org/wiki/Axiom_of_extensionality" \o "Axiom of extensionality)外延公理
* [Axiom of empty set](https://en.wikipedia.org/wiki/Axiom_of_empty_set" \o "Axiom of empty set)空集公理
* [Axiom of pairing](https://en.wikipedia.org/wiki/Axiom_of_pairing" \o "Axiom of pairing)配对公理
* [Axiom of union](https://en.wikipedia.org/wiki/Axiom_of_union" \o "Axiom of union)并集公理
* [Axiom of infinity](https://en.wikipedia.org/wiki/Axiom_of_infinity" \o "Axiom of infinity)无穷性公里
* [Axiom schema of replacement](https://en.wikipedia.org/wiki/Axiom_schema_of_replacement" \o "Axiom schema of replacement)替代公理
* [Axiom of power set](https://en.wikipedia.org/wiki/Axiom_of_power_set" \o "Axiom of power set)幂集公理
* [Axiom of regularity](https://en.wikipedia.org/wiki/Axiom_of_regularity" \o "Axiom of regularity)正则性公里
* [Axiom schema of specification](https://en.wikipedia.org/wiki/Axiom_schema_of_specification" \o "Axiom schema of specification)分类公里

## [Axiom of choice](https://en.wikipedia.org/wiki/Axiom_of_choice" \o "Axiom of choice)选择公理

*With the Zermelo–Fraenkel axioms above, this makes up the system ZFC in which most mathematics is potentially formalisable可公式化的.*

### Equivalents of AC等价选择公理

* [Hausdorff maximality theorem](https://en.wikipedia.org/wiki/Hausdorff_maximality_theorem" \o "Hausdorff maximality theorem)豪斯多夫极大性定理
* [Well-ordering theorem](https://en.wikipedia.org/wiki/Well-ordering_theorem" \o "Well-ordering theorem)良序定理
* [Zorn's lemma](https://en.wikipedia.org/wiki/Zorn's_lemma" \o "Zorn's lemma)佐恩引理

### Stronger than AC强于选择公理

* [Axiom of global choice](https://en.wikipedia.org/wiki/Axiom_of_global_choice" \o "Axiom of global choice)全局选择公理

### Weaker than AC弱于选择公理

* [Axiom of countable choice](https://en.wikipedia.org/wiki/Axiom_of_countable_choice" \o "Axiom of countable choice)可数选择公理
* [Axiom of dependent choice](https://en.wikipedia.org/wiki/Axiom_of_dependent_choice" \o "Axiom of dependent choice)(DA)依赖选择公理
* [Boolean prime ideal theorem](https://en.wikipedia.org/wiki/Boolean_prime_ideal_theorem" \o "Boolean prime ideal theorem)布尔素理想定理
* [Axiom of uniformization](https://en.wikipedia.org/wiki/Axiom_of_uniformization" \o "Axiom of uniformization)单值化公理

### Alternates incompatible with AC与选择公理交替不兼容

* [Axiom of real determinacy](https://en.wikipedia.org/wiki/Axiom_of_real_determinacy" \o "Axiom of real determinacy)(AD)实数决定性公理？

## Other axioms of [mathematical logic](https://en.wikipedia.org/wiki/Mathematical_logic" \o "Mathematical logic)数学逻辑的其它公理

* [Von Neumann–Bernays–Gödel axioms](https://en.wikipedia.org/wiki/Von_Neumann%E2%80%93Bernays%E2%80%93G%C3%B6del_axioms" \o "Von Neumann–Bernays–Gödel axioms)冯.诺依曼-伯奈斯-哥德尔公理
* [Continuum hypothesis](https://en.wikipedia.org/wiki/Continuum_hypothesis" \o "Continuum hypothesis) and [its generalization](https://en.wikipedia.org/wiki/Continuum_hypothesis" \l "The_generalized_continuum_hypothesis" \o "Continuum hypothesis)连续统假设及其泛化
* [Freiling's axiom of symmetry](https://en.wikipedia.org/wiki/Freiling's_axiom_of_symmetry" \o "Freiling's axiom of symmetry)(AX)佛莱林对称公理
* [Axiom of determinacy](https://en.wikipedia.org/wiki/Axiom_of_determinacy" \o "Axiom of determinacy)决定性公理
* [Axiom of projective determinacy](https://en.wikipedia.org/wiki/Axiom_of_projective_determinacy" \o "Axiom of projective determinacy)保护性决定性公理
* [Martin's axiom](https://en.wikipedia.org/wiki/Martin's_axiom" \o "Martin's axiom)马丁公理
* [Axiom of constructibility](https://en.wikipedia.org/wiki/Axiom_of_constructibility" \o "Axiom of constructibility)可构成型公理
* [Rank-into-rank](https://en.wikipedia.org/wiki/Rank-into-rank" \o "Rank-into-rank)等级嵌入?
* [Kripke–Platek axioms](https://en.wikipedia.org/wiki/Kripke%E2%80%93Platek_axioms" \o "Kripke–Platek axioms)克里普克-普拉杰克公理

## [Geometry](https://en.wikipedia.org/wiki/Geometry" \o "Geometry)几何

* [Parallel postulate](https://en.wikipedia.org/wiki/Parallel_postulate" \o "Parallel postulate)平行公设
* [Birkhoff's axioms](https://en.wikipedia.org/wiki/Birkhoff's_axioms" \o "Birkhoff's axioms)比尔柯夫公理
* [Hilbert's axioms](https://en.wikipedia.org/wiki/Hilbert's_axioms" \o "Hilbert's axioms)希尔伯特公理
* [Tarski's axioms](https://en.wikipedia.org/wiki/Tarski's_axioms" \o "Tarski's axioms)塔斯基公理

## Other axioms其它公理

* [Axiom of Archimedes](https://en.wikipedia.org/wiki/Axiom_of_Archimedes" \o "Axiom of Archimedes) ([real number](https://en.wikipedia.org/wiki/Real_number" \o "Real number))阿基米德公理（实数）
* [Axiom of countability](https://en.wikipedia.org/wiki/Axiom_of_countability" \o "Axiom of countability) ([topology](https://en.wikipedia.org/wiki/Topology" \o "Topology))可数公理（拓扑）
* [Fundamental axiom of analysis](https://en.wikipedia.org/wiki/Fundamental_axiom_of_analysis" \o "Fundamental axiom of analysis) ([real analysis](https://en.wikipedia.org/wiki/Real_analysis" \o "Real analysis))分析的基本公理（实数分析）
* [Gluing axiom](https://en.wikipedia.org/wiki/Gluing_axiom" \o "Gluing axiom) ([sheaf theory](https://en.wikipedia.org/wiki/Sheaf_theory" \o "Sheaf theory))胶合公理（层论）
* [Haag–Kastler axioms](https://en.wikipedia.org/wiki/Haag%E2%80%93Kastler_axioms" \o "Haag–Kastler axioms) ([quantum field theory](https://en.wikipedia.org/wiki/Quantum_field_theory" \o "Quantum field theory))哈赫-卡斯特勒公理（量子场论）
* [Huzita's axioms](https://en.wikipedia.org/wiki/Huzita's_axioms" \o "Huzita's axioms) ([origami](https://en.wikipedia.org/wiki/Origami" \o "Origami))藤田公理（折纸手工）
* [Kuratowski closure axioms](https://en.wikipedia.org/wiki/Kuratowski_closure_axioms" \o "Kuratowski closure axioms) ([topology](https://en.wikipedia.org/wiki/Topology" \o "Topology))库拉托夫斯基闭合公理
* [Peano's axioms](https://en.wikipedia.org/wiki/Peano's_axioms" \o "Peano's axioms) ([natural numbers](https://en.wikipedia.org/wiki/Natural_numbers" \o "))佩亚诺公理（自然数）
* [Probability axioms](https://en.wikipedia.org/wiki/Probability_axioms" \o "Probability axioms)概率论公理
* [Separation axiom](https://en.wikipedia.org/wiki/Separation_axiom" \o "Separation axiom) ([topology](https://en.wikipedia.org/wiki/Topology" \o "Topology))分离公理（拓扑）
* [Wightman axioms](https://en.wikipedia.org/wiki/Wightman_axioms" \o "Wightman axioms) ([quantum field theory](https://en.wikipedia.org/wiki/Quantum_field_theory" \o "Quantum field theory))怀特曼公里（量子场论）

公墓cemetery

公牛steer, bull

公平impartiality不偏不倚

to be fair公平地说，说个公道话

to do justice公平对待

fair fight公平较量

long overdue justice早就因该有的公平

allocation of fairness公平分配

公平的(公正的)fair-minded, evenhanded, unbiased

公平价值fair-value

Undervalued低价值

overvalued高价值

公平交易a fair shake

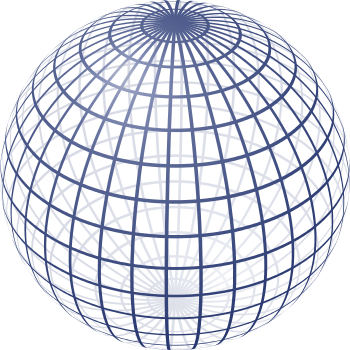
公平游戏fair game

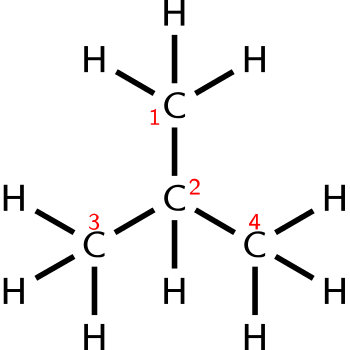
公然blatant, flagrant, under one’s very nose

flagrant disregard公然不顾

公然违反blatant violation

公式

[](https://en.wikipedia.org/wiki/File:Sphere_wireframe_10deg_6r.svg)

[](https://en.wikipedia.org/wiki/File:Isobutane_numbered_2D.svg)

The upper is a [sphere](https://en.wikipedia.org/wiki/Sphere" \o "Sphere), whose volume is given by the mathematical formula *V* = 4/3 π *r*3. 球体

The lower is the compound [isobutane](https://en.wikipedia.org/wiki/Isobutane" \o "Isobutane), which has chemical formula (CH3)3CH. 异丁烷

In [science](https://en.wikipedia.org/wiki/Science" \o "Science), a **formula** is a concise way of expressing information symbolically, as in a mathematical or [chemical formula](https://en.wikipedia.org/wiki/Chemical_formula" \o "Chemical formula). The informal use of the term ***formula*** in science refers to the [general construct of a relationship between given quantities](https://en.wikipedia.org/wiki/Commensurability_(philosophy_of_science)" \o "Commensurability (philosophy of science)). The plural of *formula* can be spelled either as *formulas* or *formulae* (from the original Latin).[[1]](https://en.wikipedia.org/wiki/Formula" \l "cite_note-oxford-1)

公式formula, formulae (it needs more than one variable)

公式分类categories of formulae:

1. Indices and logarithm指数(乘方)和对数

cf：www.amsi.org.au

2. Trigonometric identities三角函数的恒等式

3. Complex numbers复数

4. Hyperbolic identities双曲线的恒等式

5. Series级数

6. Derivatives导数

7. Integrals积分

8. Laplace transforms拉普拉斯改变

9. Z transforms Z改变

10. Fourier series and transforms傅里叶级数和改变

11. Numerical formulae数值计算公式

12. Vector formulae向量公式

13. Mechanics力学

14. Algebraic structures代数结构

15. Statistical distributions统计分布

16. F-distribution F分布

17. Normal distribution正态分布

18. t-distribution t分布

19. X2 (chi-squared)-distribution X2 (chi-squared)分布

20. Physical and astronomical constants物理和天文常数

公使attache

公司company, corporation

corporate counsel公司律师

intra-company trade公司内部贸易

公投referendum

公益机构nonprofit organization

公约convention

CWC (prohibition)---chemical weapons convention禁止化学武器公约

公正to notarize

notary公证(人)

公知public intellectual(正反两含义)

公众general public

公众看不到out of public eyes

公诸于众to keep the matter in the public eye

功德仪式merit-making ceremony

攻读大学学位to pursue college degrees

攻击attack, to bludgeon, barbs, Molotov cocktailgon

to trade barbs相互攻击

攻击犬attack dog

攻其不备to blindside

功夫片action-oriented film, martial arts

攻击美国本土attack on US soil

攻击性武器assault weapon

功率wattage

功能function

比功能to fare against

功能不良hypofunction

dysfunction功能失调

功能文盲functional illiteracy

功能紊乱dysfunction

功能最佳optimal in functionality

功效efficacy, efficiency 疗效

宫颈锥切除术cervical conization

宫古海峡Myako strait (Japanese)

(派别)宫廷斗争factions fight at court

恭敬的客人常规deferential guest routine

恭维的话fair or fuzzy words

Gong 3

廾to elevate with 2 hands

初识于氼乚(nihao)(你好how are you, how do you do):最初相识于一句你好。

心止于廾匸(gongxi)(恭喜congratulate):最后结束于一句恭喜。

只因已囗厺(guoqu)(过去it has passed):只是因为一切都过去了。

此后便叾屾(dushen)(独身bachelor, unmarried man):从此以后就单身生活了。

廾穷概念

弅(fen4)隆起 to uplift

弇(yan3)覆盖to cover

汞mercury

拱arc

拱廊arcade

拱眉to arch the eyebrows

巩固to cement, to consolidate, to solidify

to shove up of power巩固权力

to cement one’s reputation巩固威望

to solidify a deepening relation巩固不断加深的关系

Gong 4

共存to coexist, co-existence

共犯accomplice

共患病，合并病comorbidity

共济失调ataxia

共价交联作用covalent crossing linking effects

共同付费co=payment

共同面对风险pooling risk共识

共同被告co-defendant

共同统治condominium

共同赞助to co-sponsor

共同掌握的collegial

共识consensus

共享to share with...

共圆的concyclic

共鸣to resonate, resonance

resonator 共鸣器

共鸣vibe, empathy感同身受

共谋complicity, cahoot

共谋者co-conspirator

共生symbiosis

共识consensus

共显性codominant

共线collinear

共享to share, share

sharealike相同方式共享

to overshare过度共享

To undershare分享不足

共性，特性 commonality vs distinction

供出租for hire

供奉to enshrine

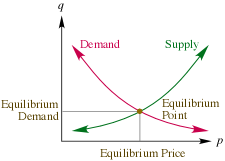
to enshrine fundamental human rights供奉基本人权

供求

***Demand and Supply Models***

A **demand equation** or **demand function** expresses demand *q* (the number of items demanded) as a function of the unit price *p* (the price per item). A **supply equation** or **supply function** expresses supply *q* (the number of items a supplier is willing to bring to the market) as a function of the unit price *p* (the price per item). It is usually the case that demand decreases and supply increases as the unit price increases.

Demand and supply are said to be in **equilibrium** when demand equals supply. The corresponding values of *p* and *q* are called the **equilibrium price** and **equilibrium demand.** To find the equilibrium price, determine the unit price *p* where the demand and supply curves cross (sometimes we can determine this value analytically by setting demand equal to supply and solving for *p*). To find the equilibrium demand, evaluate the demand (or supply) function at the equilibrium price.



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**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [勾4](http://xh.5156edu.com/html3/1781.html) [狗8](http://xh.5156edu.com/html3/6844.html)[购8](http://xh.5156edu.com/html3/10526.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gou 1

勾股定理 Pythagoras theorem C2 = A2 + B2

勾画to portray

勾结to collude, hand-in-glove

勾销to write off

勾引 to cajole, carjacking

to accost gallery goers勾引艺术喜好者

勾引男子的女子seductress

沟ditch, furrow, groove, gutter, sulcus, trench, trough,

gully冲沟

Gou 3

狗dog, pup, puppy小狗

Underdog斗败的狗

topdog出支配地位的狗

retriever pup猎犬小狗

pup，puppy小狗

Poodle dog狮子狗

Pooch杂种狗

lapdog供玩赏的小狗

dog-whistle狗哨

狗不理 go believe

狗吠to yelp

狗公理=直线距离as-the-crow-flies distance

狗娘养的bitch

狗嘴里吐不出象牙what you expect from a pig is grunt.

枸杞(qi3) lycium, wolfberry, barbarum

Gou 4

构成威胁to pose threat, to pose a danger

构成安全风险 to pose a safety risk

构成要素constituents

构建自己的庇护网to build one’s own patronage network

构想自己的目标to visualize one’s goals

构音障碍dysarthria

构造structure

tectonic plates构造板块

structural geology构造地质学

购买purchase, to purchase

to pare its purchase of Treasurys (bond)削减(去皮)公债购买

to taper the purchases缩减资产购买

购买保单to buy insurance policy

购买某物to shop for sth

购买力平价PPP---purchasing power parity (参考“巨无霸指数)

in ppp vs in US dollar terms以购买力平价计算；以美元计算=以汇率计算

购物车cart

购物热shopping spree

购物天堂shopping mecca

够了enough is enough适可而止

够古怪的了cranky enough

(足)够了English suffices for most needs.

够不着out of reach

诟(=辱骂) shame, to scold

to denounce, to castigate诟病

much-maligned饱受诟病的

**Gu**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [估7](http://xh.5156edu.com/html3/2841.html)[鹘14](http://xh.5156edu.com/html3/15363.html)[古5](http://xh.5156edu.com/html3/5360.html)[固8](http://xh.5156edu.com/html3/9909.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gu 1

-估 to estimate

to overestimate 高估

to underestimate低估

估计to estimate, to gauge

估价方法valuation method

估量形势to take stock of the situation

估算estimator

point estimator点估算

interval estimator区间估算

咕哝to mumble, to mutter

孤独表演者lone actor

孤独症autism自闭症

孤僻seclusiveness

孤注一掷to roll the dice, to take the plunge, in desperate bid

孤立to isolate，siloed

(使)孤立marooned from the people

孤立使人落后Isolation leaves one behind.

姑paternal aunt

姑息palliative

菇

clear ear fungus 云耳

day-lily fungus 金针菇

flower or oak mushroom 花菇

oyster mushroom 平菇

shitake mushroom 香菇

Gu 2

鹘falcon

Gu 3

古盗龙archaeorapter

古怪的outlandish, wacky, zany, quirky, eccentric，erratic

odd galaxy古怪星系

eccentric peers古怪的同辈

古怪人oddball

古生菌archaea 如yeast, plants

古为今用to make the past serve the present

古植物学家archaeobotanist

股stock, share

share holder, investor股民

small cap stock低市值股，细股

large cap stock大型股，高市值股

股票常用的动词：

涨:

To gain

To grow

To increase

To raise

To rise

跌:

To dip

To down

To drop

To fall

其它:

To be flat

To forecast

To hit

To jump

To plunge暴跌

To slip back

To stop

To tighten

To tumble

To slip back

普通股equity

股票抛售stock sell-off

股票期货stock futures

股权众筹equity crowdfunding

It is a different beast from kickstarter campaign众筹平台活动

股四头肌quadriceps femoris

股市stock market:

美国股市 US equity market

Dow Jones industrial average道琼斯工业指数

S&P 500 standard and poor 500史坦普500股价指数

NASDAQ composite index纳斯达克综合指数

CBOE--- Chicago board option exchange芝加哥期权交易所

VIX--- volatility index波动性指标

Investor fear gauge投资者恐慌指数

France’s CAC 40法国

Germany’s DAX德国达克斯指数

Japan’s nikkei日本日经

London’s FTSE--- financial time and stock exchange富时指数

China’s Shanghai composite index中国上海综合指数

Hongkong’s Heng seng index香港恒生指数

ticker贴标（上市公司缩写）

short covering空头回补

bargain hunter四处觅购便宜货的人

股市波动stock market volatility:

Bullish, upswing升，涨

Bearish, cratered降，跌

neutral平稳

stock’s price which is determined by 2 basic things:

EPS \* P/E = stock price

eps or earnings per share which reflects the cold,hard,reality of business

p/e which reflects the often-fickle emotions of investors

Investor’s sentiments include fear, greed, other impulses

sky-high or astronomical expectations of returns

gain (upside) is unlimited it can reach 1,00%

to celebrate victories 庆祝胜利

Loss (downside) is capped it at worst reach 100%

to commserate losses 怜悯损失

Sin stocks--- alcohol and tobacco companies罪恶股

Black swan theory (event)黑天鹅事件= hard-to-predict event

Bursting of the dot-com bubble网络泡沫破裂

Grey (gray) rhino incident灰犀牛事件

market bellwether 市场风向标(领头羊)

variance swaps 方差互换

data-neutral option strategies such as straddles, strangles

资料中性买卖特权策略 比如：跨坐，绞杀

股市的几个缩写abbreviations:

DPS--- dividend per share每股红利

LAGMP--- lagged market price per share每股市面滞后

MPS--- market price per share每股市价

REPS--- retained earnings per share每股留存利润

ROE--- return on equity股本回报

股息支付率payout ratio

股指期货share price index futures--- SPIF

鼓吹者advocate, advocator, preacher, proponent, trumpeter

鼓动战争精神to drum up war spirit

鼓浪屿Kulangsu island

鼓励to invigorate, to encourage, to motivate, to inspire

to get pumped得到鼓励

鼓舞士气morale boosting, to bolster or boost the morale

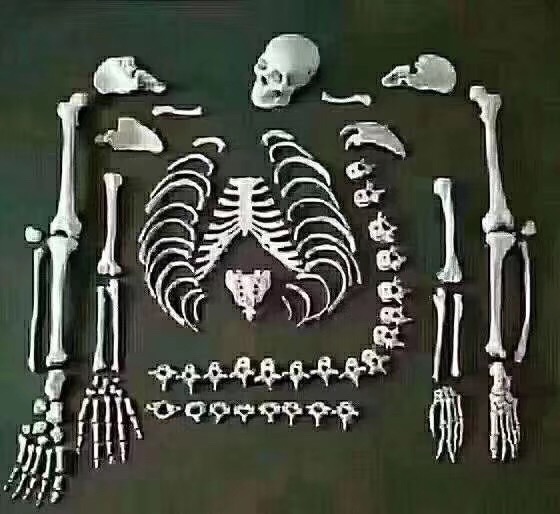
鼓舞者animator

(长时间站立)鼓掌欢呼standing ovation and cheers

骨顶鸟baldcost

骨干教师elite-teacher

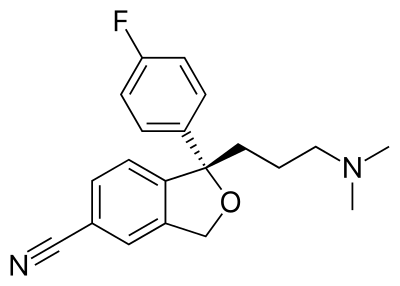
骨骼(人的) human bones 206 in total



骨灰盒，棺材casket

骨灰瓮urn

骨架公式skeleton formula

[](https://en.wikipedia.org/wiki/File:Escitalopram.svg)

The skeletal formula of the [antidepressant](https://en.wikipedia.org/wiki/Antidepressant" \o "Antidepressant)**抗抑郁剂** drug [escitalopram](https://en.wikipedia.org/wiki/Escitalopram" \o "Escitalopram)**依他普仑（药名）**,

featuring skeletal representations of [heteroatoms](https://en.wikipedia.org/wiki/Heteroatom" \o "Heteroatom)杂原子，杂环原子, a [triple bond](https://en.wikipedia.org/wiki/Covalent_bond" \l "Bond_order" \o "Covalent bond)**三重键；[物化] 三键**,

[phenyl groups](https://en.wikipedia.org/wiki/Phenyl_group" \o "Phenyl group)苯基 and [stereochemistry](https://en.wikipedia.org/wiki/Stereochemistry" \o "Stereochemistry)**立体化学**

The **skeletal formula**, also called **line-angle formula** or **shorthand formula**, of an [organic compound](https://en.wikipedia.org/wiki/Organic_compound" \o "Organic compound) is a type of molecular [structural formula](https://en.wikipedia.org/wiki/Structural_formula" \o "Structural formula) that serves as a shorthand representation of a [molecule](https://en.wikipedia.org/wiki/Molecule" \o "Molecule)'s [bonding](https://en.wikipedia.org/wiki/Structural_isomer" \o "Structural isomer) and some details of its [molecular geometry](https://en.wikipedia.org/wiki/Molecular_geometry" \o "Molecular geometry). A skeletal formula shows the **skeletal structure** or [skeleton](https://en.wikipedia.org/wiki/Skeleton" \o "Skeleton) of a molecule, which is composed of the **skeletal atoms** that make up the molecule.[[1]](https://en.wikipedia.org/wiki/Skeletal_formula" \l "cite_note-1) It is represented in two dimensions, as on a piece of paper. It

骨密度bone(mineral) density

骨折的危险性 = or或 danger of fracture =

小心，小心，再小心，把“分子”缩小，“分母”受年龄制约无法改变

骨折cataclasis, catagma, fracture

骨牌效应domino effect连锁反应

骨软骨的osteochondral

骨水泥acrylic cement丙烯酸

骨肽ossotide

骨折fracture, to fracture

骨质疏松症osteoporosis

谷丙转氨酶alt, glutamic-pyruvic transaminase

谷歌浏览器chrome browser

谷粒kernel

蛊 a legendary venomous insect, a poison made with insects, worms or beetles

(直观：put insects in a container letting them fighting)

tricky brains养蛊

to bewitch(搞巫术), to seduce(引诱), under the sway of(受...支配)蛊惑

Gu 4

估价to rate

overrated被低估的

underrated被高估的

固定电话landline phone vs skype 网络电话

固化to solidify

固件firmware

固锁待发US military was “cocked and loaded”

固网，强制移动hard-link to an external URL

固有的脆弱性inherent vulnerability

固有领土established territory vs disputed territory

固执tenacity

固执的态度stubborn stance

固执己见obstinacy

顾虑shy of

顾全面子的face-saving

顾问adviser, councilor

advisory panel顾问小组

故障trouble, faulty，

glitch小故障， 失灵

to head off glitches before they happen防止故障

雇员employee vs employer雇主

**Gua**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [瓜5](http://xh.5156edu.com/html3/14296.html) [寡14](http://xh.5156edu.com/html3/6317.html)[挂9](http://xh.5156edu.com/html3/7686.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gua 1

瓜果melon and fruit

瓜类melons

刮to shave, scrape, scratch

to shave one’s beard刮胡子

to look at sb with new eyes刮目相看

刮擦声scatchy

Gua 3

寡妇widow, husbandless woman

war widow丈夫死于战争的寡妇

grieving widow哀伤的寡妇

寡妇蜘蛛widow spider

寡头oligopoly

oligarch寡头政治执政者

silicon valley oligarch or big tech硅谷寡头:

Facebook ceo

Twitter ceo

寡言的tight-lipped

刮宫curettage

Gua 4

挂车semitrailer

挂高速档to shift into high gear

挂利比里亚国旗to fly a Liberian flag

挂念to miss

挂在树上hanging from a tree

与...挂钩to peg to sth

卦divinatory system, divine the the 8 diagrams

hexagram 64 64卦

to change one’s mind变卦

Hetu luoshu 河图 洛书

**Guai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [乖8](http://xh.5156edu.com/html3/1658.html)[叏5](http://xh.5156edu.com/html3/3597.html)[拐8](http://xh.5156edu.com/html3/7630.html)[怪8](http://xh.5156edu.com/html3/10050.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Guai 1

乖good behavior

乖乖地交出权力to yield the power graciously

怪癖的kooky, quirk

Guai 2

叏=夬 one of the 64 diagrams64卦之一

guai 3

拐点，转折点inflection point

拐骗to kidnap

拐弯抹角地说to speak in a curveball way

to mince words about sb拐弯抹角地说某人

拐杖crutch

guai 4

怪癖mannerism

怪诞的grotesque

怪圈 cycle of exclusion

怪人oddball, weirdo

怪物monster

**Guan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [关6](http://xh.5156edu.com/html3/2496.html) [管14](http://xh.5156edu.com/html3/17876.html)[惯11](http://xh.5156edu.com/html3/10177.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Guan 1

关闭广播电台to shut down the broadcaster

to close the military base关闭军事基地关

to shut nuclear test site 关闭核试验场

to shut the border 关闭边境

to take down one’s account关闭账号

关键pivotal, linchpin, crux, sticking point,

Key takeaway, key plank

take-home message关键信息

关键词keyword

keyword spotting关键词辨认

关键信息take-home message

关键措施pivotal move

关节joint

knuckle指关节

osteoarthritis骨关节炎

rheumatoid arthritis风湿性关节炎

关进监狱to put sb behind bars

关联理论relevance theory

关起来to lock up sb on corruption charges

关入监狱to put sb behind the bars

关上窗子to close the windows

关税tariff vs tax

tariff waiver关税减免

tariff man关税人(words on Trump’s vest)

关押to imprison

关系relationship; (personal) rapport

affiliation从属关系，友好关系

关系和睦on good terms

关系加深了the ties deepened

关注to focus on

关注奖品to set eyes on the prize

官僚bureaucrat, bureaucracy

官能团，功能组，功能基functional group (in chemistry)

官能团，是决定有机化合物的[化学性质](https://baike.baidu.com/item/%E5%8C%96%E5%AD%A6%E6%80%A7%E8%B4%A8/763688" \t "_blank)的[原子](https://baike.baidu.com/item/%E5%8E%9F%E5%AD%90/420269" \t "_blank)或[原子团](https://baike.baidu.com/item/%E5%8E%9F%E5%AD%90%E5%9B%A2/105637" \t "_blank)。常见官能团[碳碳双键](https://baike.baidu.com/item/%E7%A2%B3%E7%A2%B3%E5%8F%8C%E9%94%AE/2827173" \t "_blank)、碳碳[三键](https://baike.baidu.com/item/%E4%B8%89%E9%94%AE" \t "_blank)、羟基、[羧基](https://baike.baidu.com/item/%E7%BE%A7%E5%9F%BA/648605" \t "_blank)、醚键、[醛基](https://baike.baidu.com/item/%E9%86%9B%E5%9F%BA/582474" \t "_blank)、[羰基](https://baike.baidu.com/item/%E7%BE%B0%E5%9F%BA/5959737" \t "_blank)等。有机化学反应主要发生在官能团上，官能团对有机物的性质起决定作用，—X、OH、-CHO、-COOH、-NO2、-SO3H、-NH2、RCO-，这些官能团就决定了有机物中的[卤代烃](https://baike.baidu.com/item/%E5%8D%A4%E4%BB%A3%E7%83%83/2930846" \t "_blank)、[醇](https://baike.baidu.com/item/%E9%86%87/13011860" \t "_blank)或[酚](https://baike.baidu.com/item/%E9%85%9A" \t "_blank)、[醛](https://baike.baidu.com/item/%E9%86%9B" \t "_blank)、[羧酸](https://baike.baidu.com/item/%E7%BE%A7%E9%85%B8/2443525" \t "_blank)、[硝基化合物](https://baike.baidu.com/item/%E7%A1%9D%E5%9F%BA%E5%8C%96%E5%90%88%E7%89%A9/1754074" \t "_blank)或[亚硝酸](https://baike.baidu.com/item/%E4%BA%9A%E7%A1%9D%E9%85%B8" \t "_blank)酯、磺酸类有机物、[胺](https://baike.baidu.com/item/%E8%83%BA" \t "_blank)类、[酰胺](https://baike.baidu.com/item/%E9%85%B0%E8%83%BA" \t "_blank)类的化学性质。

官样文章red tape繁文缛(ru)节

棺材casket, coffin

another nail in the coffin棺材上的另一个钉子

(在)观察名单当中on watch list

hit list击毙名单

rape list奸淫名单

鳏wifeless man = 矝；区别：如果右边为“今”qin2则为“自夸”之意

鳏寡孤独the kinless

观view, outlook

life outlook人生观

values价值观

world view, world outlook世界观

macroscope宏观镜

microscope显微镜

观察名单watchlist

on the terror watchlist在恐怖分子观察名单里

观看to watch

观众spectator, viewer

viewership观众人数，观众类型

观鹰者eagle-watcher

在观察名单上on the watch list

Guan 3

管tube

二极管diode

三极管triode, audion

四极管tetrode

五极管pentode

晶体管transistor

管道配件pipefitting

pipe layer管道敷设工

管好自己to police oneself

管理不善to mismanage

管理工作stewardship

管理员administrator

管辖区precinct

管子插入to intubate

管辖区precinct

管闲事to meddle

馆长curator to curate当馆长

curatorial team 核心团队

Guan 4

冠军champion in the first place gold medal

亚军runner-up in the second place silver medal

季军second runner-up in the third place bronze medal

冠心病CHD--- coronary heart disease

冠状肺炎病毒COVID-19, 变种:

Alpha variant

beta variant

delta variant--- most transmissible or contagious

gamma variant

Lambda variant

There are 3 forms of coronavirus: SARS, MERS, COVID-19

scientifically validated drugs科学证实的药物:

Chinese medicines中药

ivermectin (an anti-parasite agent)伊维菌素

Dexamethasone地塞米松

Remdesivir 瑞德西韦 made by Gilead company吉利德公司

灌溉农田to irrigate the farmlands

灌篮高手slam dunk扣篮

灌输to infuse, to inplant, to instill, to inoculate, to imbue (with)...

to inoculate patriotism灌输爱国主义

灌输恐怖to instill fear

灌洗器douche

灌注不足hypoperfusion

盥clean

盥洗室，厕所lavatory

盥献sacrificial rite with drink

贯通run-through

惯性inert

inert drug metabolite惯性毒品代谢物

**Guang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [光6](http://xh.5156edu.com/html3/2091.html) [广3](http://xh.5156edu.com/html3/5099.html)[逛10](http://xh.5156edu.com/html3/4774.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Guang 1

光light，ray, brightness; naked, bare; nothing left

LED--- light emitting diode发光二极管

optical dual wavelength technology 光学双波长技术

PD--- photodiode 光电二极管

photometric system 测光系统

properties of light光的性质

光波 lightwave，which can travel 300,000km/second

光彩夺目的赌场glitzy casinos

光催化photo-activated

photo-activated serum光催化血清

光化学Photochemistry

光点blip

光电池photovoltaic cell

光电二极管photodiode

PiN photodiode 正-本征区-负 ~

光电设备optoelectronic device

光电子学optoelectronics

光度计photometer

光合作用**Photosynthesis**

Plants are [photosynthetic](https://en.wikipedia.org/wiki/Photosynthesis" \o "Photosynthesis), which means that they manufacture their own food molecules using energy obtained from [light](https://en.wikipedia.org/wiki/Light" \o "Light). The primary mechanism plants have for capturing light energy is the [pigment](https://en.wikipedia.org/wiki/Pigment" \o "Pigment) [chlorophyll](https://en.wikipedia.org/wiki/Chlorophyll" \o "Chlorophyll)叶绿素. All green plants contain two forms of chlorophyll, [chlorophyll](https://en.wikipedia.org/wiki/Chlorophyll_a" \o "Chlorophyll a) *[a](https://en.wikipedia.org/wiki/Chlorophyll_a" \o "Chlorophyll a)* and [chlorophyll](https://en.wikipedia.org/wiki/Chlorophyll_b" \o "Chlorophyll b) *[b](https://en.wikipedia.org/wiki/Chlorophyll_b" \o "Chlorophyll b)*. The latter of these pigments is not found in red or brown algae红藻或褐藻. The simple equation of photosynthesis is as follows:-

6CO2 + 6H2O → (in the presence of light and chlorophyll有光和叶绿素现身) C6H12O6 + 6O2

光化学photochemistry

光辉splendor

光滑面glaze

光环aura

halo-like光环状的

光刻photoetch

光刻法photolithography 影印品刻术

光刻机mask alighner

深紫光DUV---deep ultra violet

极紫光EUV--- extreme violet

蚀光机etching machine

光刻胶**photoresist** is a light-sensitive material used in several processes,such as photography and photoengraving, to form a patterned coating on a surface. This process is crucial in the electronic industry. The process begins by coating a substrate with a light-sensitive organic material. A pattered mask is then applied the surface to block light, so that only unmasked regions of the material will be exposed.

光刻胶对光源波长的要求（在紫外宽谱上）：随着集成电路集成度的提高，制程工艺水平由微米级---> 亚微米级---> 深微米级---> 纳米级。目前的情况：G线(436nm)---> i线(365nm)---> KrF(286nm)---> ArF(193nm)---> F2(157nm)---> Euv(<13.5nm)

ArF---有两种方法：干法用来制作65-130nm的IC电路

湿法用来制作45nn以下的IC电路,正胶，负胶都用

KrF--- 用来制作0.25-0.15 μm IC电路，正胶（monopolized by Japan）

I线--- 用来制作0.5-0.35μm 的IC电路 以正胶为主

G线--- 用来制作0.5μm 以上的IC电路 以正胶为主

光明正大（地）fair and square

光年 light year--- which is the distance that light travels at 2.9 x 105 kms-1, in a year. It is approximately 9.46 x 1012 km

光谱学spectroscopy

光纤电缆fiber-optic cable

光谱仪spectrograph

光荣in all one’s glory

光荣退伍honorably discharged from the military

光栅raster

光身搜查strip-searched

光收发机optical transceiver

光束罗盘beam compass

光说不干to talk the talk vs to walk the walk说干就干

光掩膜photomask

光耀的日子glory day

光耀门楣to bring the family honor

光遗传学optogenetics--- a branch of biophysics which can be applied to restore vision and hearing loss, help control movement in neurological patients and treat those with Parkinson’s and Alzheimer’s disease

光源light source

光罩photomask

光泽sheen

to lose one’s sheen失去光泽

光子photon

photonics光子学

pair of photons光子对儿--- created or born simultaneously like a quantum twin

胱氨酸cystine, cystinol, dicysteine

homocysteine同型半胱氨酸

Guang 3

广播to broadcast, to air

to air the program广播了该节目

广布的far-flung

广场协议plaza accord

广泛broad, pan-

广泛的反对almighty row

to face ~面临~

to provoke ~ 引起~

广泛的阅历broad experience

广泛的认可（或制裁）wide-ranging sanction

广泛的谴责wide-ranging condemnation

广告ad，flyer， commercial:

informercial信息式广告

advertorial社论式广告

advertising disclaimer广告免责声明

广袤(mao4) widthwise from east to west, lengthwise from south to north(东西为“广”，南北为“袤”) (横向东西，纵向南北)

广谱抗生素wide-spectrum antibiotics(含多糖类如头孢，大环内酯类 不当服用会使菌群失调)

窄谱抗生素narrow-spectrum antibiotics专杀一种细菌

广受赞誉的人toast

广为人知well-publicized广为宣传

Guang 4

逛大街to stroll the street

逛商场window-shopping

**Gui**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [归5](http://xh.5156edu.com/html3/5222.html) [鬼9](http://xh.5156edu.com/html3/20964.html)[贵9](http://xh.5156edu.com/html3/10531.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gui 1

归功于to claim credit for, to owe sth to sb

归结为to boil down to

归咎to accuse, to ascribe, to attribute a fault to, blame to, to impute,

to pin blame for sth to sb把某事归咎于某人

归謬法reduction to absurdity, reductio ad absurdum

归入to relegate

归因attribution属性

attribution theory归因理论:

external attribution 外向归因

internal attribution内向归因

归这一类to fit this category

圭表gnomon

圭臬(nie4) criterion, standard

闺密干涉政治confidante meddling

硅silicon

monocrystalline silicon, single crystal silicon单晶硅

poly silicon, poly crystal silicon多晶硅

硅涂鸦silicon doodling，chip art, silicon graffiti

规避审查to circumvent the censor

to circumvent the sanction规避制裁

规定to stipulate

规定期限set deadline

规范(的) to codify, to standardize, to regularize, canonical

规范动作spec ops actions

规格庞大sheer size

规划新路线to chart a new course

规律间隔成簇短回文重复序列CRISPR--- clustered regularly interspaced short palindromic repeats

CRISPR cas9

CRISPR cas13 virus-killing enzyme

规律性的东西一般用数学表示

The laws are usually stated mathematically.

规模scale

scale development规模发展

规则治理rule-based governance

规则手册rulebook

皈依ceremony of proclaiming sb a buddhist

Gui 3

鬼鬼祟祟sneak

sneaky good soccer skills鬼鬼祟祟的高明足球技术

诡辩sophism

诡雷booby trap 诱雷

鬼城ghost town

鬼怪bugaboo

轨道炮 (EM) railgun (launcher)

electromagnetic railgun电磁轨道炮

轨迹球鼠标trackball mouse

诡辩sophistry, sophism, quibbling

sophist诡辩者

诡计scam, ruse, shenanigans, subterfuge

诡计多端astute

诡计多端的头脑scheming head

诡谲多变的treacherous

诡异的creepy

Gui 4

贵expensive

贵宾待遇red-carpet

贵族aristocrat:

Duke 公爵

Marquis 侯爵

Count or earl伯爵

Viscount 子爵

Baron 男爵

跪to kneel

to kneel before god跪在上帝面前

跪倒to sink to one’s knees

跪下to get on one’s knees

柜子locker

**Gun**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [滾14](http://xh.5156edu.com/html3/8942.html)[棍12](http://xh.5156edu.com/html3/11829.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Gun 3

滚存rollover

滚动to trumble, to scroll through

滚动式计算机roll-away computer

滚开to fuck off, to get hence (at once)

滚轮roller wheel

滚落下to tumble down

滚木log-rolling

滚下装配线to roll off the assembly line

滚珠轴承ball-bearing

辊roll, roller

continuous casting roll连铸辊

to steam roll sb用蒸汽加热辊某人

Gun 4

棍stick

棍棒cudgel

(赌)棍professional or hardened gambler

**Guo**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [鍋16](http://xh.5156edu.com/html3/19928.html)[囯7](http://xh.5156edu.com/html3/9900.html)[果8](http://xh.5156edu.com/html3/11483.html)[过6](http://xh.5156edu.com/html3/4693.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Guo 1

锅pot, wok

锅巴crispy rice

锅嫌壶黑pot calling the kettle black

锅(后置post setting)

背黑锅to take the blame for the fault of others

甩锅to shun the responsibility to others, to throw the pot

聒噪不已noisy

Guo 2

国产domestically-produced, homegrown

国歌national anthem

国徽胸针flag pin

国会congress, house, parliament

capitol hill国会山(senate, house of representatives)

Capitol chaos, siege(2021,01,06)国会混乱，围攻国会

congressionally-mandated borrowing limits 国会规定的借款限额

国际癌症研究机构 IARC--- international agency for research on cancer

国际标准化组织ISO--- International Organization for Standardization

国际红十字会ICRC---international committee f red cross

国际标准化比值INR--- international normalized ratio

国际基准价格international benchmark

国际贸易结算international trade settlement

国际评级机构惠誉fitch rating

国际特赦组织Amnesty International

国际舞台international arena

国际刑警组织Interpol

国际音标



国际足联FIFA---Federation International de Football Association

Fifa ranking国际足联排名

国家body politic政体

国家耻辱national disgrace

国家概况country profile

国家批准的state-sanctioned

国家主义statism

国会山Capitol Hill

国会议员parliamentarian, member of parliament

国立卫生研究院(美国) NIH--- national institute of health

国联League of Nations （2战前的国际组织）

国民national

国民生产总值GNP--- gross national product（属于本国国民在国内国外的资产）

国内生产总值GDP--- gross domestic product （属于本国土内本国人和外国人的资产）

real GDP实际GDP (以上年度计价)

nominal GDP 名义GDP (以本年度计价) (参见巨无霸指数)

计算方法：

MER---market exchange rate 市场汇率 (2017年起世界第二)

PPP--- purchase power parity购买力平价 (2017年起世界第一)

国事访问+state visit plus

国书credential

to receive the credential of a new ambassador接受新任大使的国书

国泰cathay

great cathay unification国泰大统一

国外的out-of-state

国营的state-run

国有化, 民族化，全国范围 to nationalize

国语mandarin

国葬state funeral

掴to smack

掴耳光to slap

Guo 3

果nut

果导片(参见 酚酞片)

果仁味的nutty

果泥puree

apple puree苹果果泥

(微型法国)果馅儿饼miniature french tart

Guo 4

过得不错to fare pretty wel

过度transition

过度夸张over-exaggeration

过度人物transitional figure

过度自省navel-gazing

过度行驶to overdrive

过多，过剩a plethora of

过分It is way over the top.

These regulations are overkill.这些规定是过分行为

过分的overblown, egregious

overstressed过度紧张的

over-the-top过分了，夸大了

过分强调to overemphasize

过分热心overzealous

过高的价格增长exorbitant price increase

过高的开销exorbitant spending

过户费transfer fee

过监狱生活to get life behind bars

过街天桥flyover

过境数据流transborder data flow

过劳死death from overwork, karoshi(日本), gwarosa(韩国)

过路人passer-by

过滤的percolating

过滤掉to filter out

过敏allergy An allergy is the response of the body's immune system to

normally harmless substances, such as pollens花粉, foods, and

house dust mite屋尘螨. Whilst in most people these substances

(allergens过敏原) pose no problem, in allergic individuals their

immune system identifies them as a’ threat’ and produces an

inappropriate response （secreting histamine分泌组胺）.

The most common causes of allergic reactions are:过敏原因：

pollen花粉 from trees and grasses such as daisy~ 雏菊过敏

marigold~ 万寿菊过敏 ragweed~ 豚草过敏

Proteins蛋白 secreted from house dust mites

moulds霉菌

foods食品 such as peanuts, tree nuts, milk and eggs

pets宠物 such as cats and dogs, and other furry or hairy animals such as horses,

rabbits and guinea pigs

insects昆虫 such as wasps and bees

medicines药物 (these may cause reactions by binding to proteins in the blood,

which then trigger the reaction)

Common symptoms associated with allergic conditions include:常见过敏证候

sneezing打喷嚏

wheezing哮喘 / coughing咳嗽 / shortness of breath呼吸短促

sinus pain腔痛 / runny nose流鼻涕

nettle rash 风疹/ hives荨麻疹

swelling肿胀

itchy 发痒eyes, ears, lips throat and mouth

sickness生病, vomiting恶心 & diarrhoea腹泻

How to combat or beat allergy

Try a saline sinus rinse, cromolyn sodium

Take an antihistamine: cetirizine fexofanadine, levocetirizine dihydrochloride

How to prevent allergy

Avoid pet dander

Kill mites by boiling your beddings,

Bleach indoor moulds

Use less vacuuming and sweeping (the stirred up dust mites need 2 hours to settle)

Outsource housekeeping

Wear a trusty filter mask

Get HEPS (high efficiency particulate air) filter

Get shot for dust-proofing

过敏性反应anaphylaxis

过敏性哮喘allergic asthma

过期的overdue

overstayed visa过期的签证

过去的时代bygone era

过氧化氢酶 CAT--- catalase from micrococcus lysodeikticus

过去完成时pluperfect, past perfect tense

## 结构：

[主语](https://baike.baidu.com/item/%E4%B8%BB%E8%AF%AD" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)+had+动词[过去分词](https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%88%86%E8%AF%8D" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)

①[肯定句](https://baike.baidu.com/item/%E8%82%AF%E5%AE%9A%E5%8F%A5" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)：主语+had+动词过去分词+其他.

②[否定句](https://baike.baidu.com/item/%E5%90%A6%E5%AE%9A%E5%8F%A5" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)：主语+had+not+[动词](https://baike.baidu.com/item/%E5%8A%A8%E8%AF%8D" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)过去分词+其他.

③[疑问句](https://baike.baidu.com/item/%E7%96%91%E9%97%AE%E5%8F%A5" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)：Had+主语+动词过去分词+其他?

肯定回答：Yes,主语+had.

否定回答：No,主语+hadn't.

④[特殊疑问句](https://baike.baidu.com/item/%E7%89%B9%E6%AE%8A%E7%96%91%E9%97%AE%E5%8F%A5" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)：[特殊疑问词](https://baike.baidu.com/item/%E7%89%B9%E6%AE%8A%E7%96%91%E9%97%AE%E8%AF%8D" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)或词组+had+主语+过去分词+其他？

⑤[被动语态](https://baike.baidu.com/item/%E8%A2%AB%E5%8A%A8%E8%AF%AD%E6%80%81" \t "https://baike.baidu.com/item/%E8%BF%87%E5%8E%BB%E5%AE%8C%E6%88%90%E6%97%B6/_blank)：主语+had(not) +been+动词过去分词+其他

过山车roller coaster

roller coaster diplomacy忽左忽右的外交

过失misstep

过时的out of date, antiquated

过时的道路vintage road老式的道路

过时的时代outdated era

过世to pass away

过山车roller coaster忽生忽下

emotional roller coaster情感过山车

过失gaffe

过失杀人manslaughter

过瘾的mind-blowing, to satisfy addiction need’

to satisfy a craving

to get high过瘾的感觉

过于情感化的关系touchy-feely relationship

**Western knowledge elements:**

**字符(含义)**

**形式语言**

**(formal language)**

(希腊字母ΓꝽ应归此栏，已按字母顺序列入“C”字母名下)

单个拉丁字母：

## G g

G represents大写时代表：

1. an arbitrary [graph](https://en.wikipedia.org/wiki/Graph_(discrete_mathematics)" \o "Graph (discrete mathematics)), as in: *G*(*V*,*E*)

任意图，如像：图 (顶点，棱)

2. an arbitrary [group](https://en.wikipedia.org/wiki/Group_(mathematics)" \o "Group (mathematics))

任意群

3. the unit prefix [giga](https://en.wikipedia.org/wiki/Giga" \o "Giga) (109)

单位前缀109

4. [Newton's gravitational constant](https://en.wikipedia.org/wiki/Gravitational_constant" \o "Gravitational constant)

牛顿的万有引力常数

5. the [Einstein tensor](https://en.wikipedia.org/wiki/Einstein_tensor" \o "Einstein tensor)

爱因斯坦张量

6. the [Gibbs energy](https://en.wikipedia.org/wiki/Gibbs_energy" \o "Gibbs energy)

吉布斯能

7. the [centroid](https://en.wikipedia.org/wiki/Centroid" \o "Centroid) of a triangle

三角形的图心

8. [Catalan's constant](https://en.wikipedia.org/wiki/Catalan's_constant" \o "Catalan's constant)

卡塔兰常数

g represents小写时代表:

1. the generic designation of a second function

第二个函数的常见指代

2. the acceleration due to [gravity on Earth](https://en.wikipedia.org/wiki/Free_fall" \o "Free fall)

因地球上的重力而产生的加速度

## 字符串：

GPU--- Graphics Processing Unit视觉处理器，显示核心，显示芯片