Voicing of ED and ES suffixes in English

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **IPA** | **-ed** |  |  | **-s/-es** |  |  |
| **unvoiced** |  | Past participle verbs, Adjectives | | | Third-person singular verbs, Plurals, Possessive S. | | |
| **plosives** |  |
| p – hope | p | hoped | t | /həw**pt**/ | hopes | s | /həw**ps**/ |
| t – vote | t | voted | ɪd | /vəw**t.ɪd**/ | votes | s | /vəw**ts**/ |
| ch – watch | ʧ | watched | t | /wɔ**ʧt**/ | watches | ɪz | /wɔ**ʧ.ɪz**/ |
| k – like | k | liked | t | /lɑj**kt**/ | likes | s | /lɑj**ks**/ |
| **fricatives** |  |  |  |  |  |  |  |
| f – cough | f | coughed | t | /kɔ**ft**/ | coughs | s | /cɔ**fs**/ |
| θ – math | θ | mathed\* | t | /ma**θt**/ | maths | s | /ma**θs**/ |
| s – miss | s | missed | t | /mɪ**st**/ | misses | ɪz | /ˈmɪ**s.ɪz**/ |
| sh – wash | ʃ | washed | t | /wɔ**ʃt**/ | washes | ɪz | /ˈwɔ**ʃ.ɪz**/ |
|  |  |  |  |  |  |  |  |
| **voiced** |  | **-ed** |  |  | **-s/-es** |  |  |
| **plosives** |  |  |  |  |  |  |  |
| b – rob | b | robbed | d | /rɔ**bd**/ | robs | z | /ɹɔ**bz**/ |
| d – shade | d | shaded | ɪd | /ʃɛj**d.ɪd**/ | shades | z | /ʃɛj**dz**/ |
| j – bridge | ʤ | bridged | d | /brɪ**ʤd**/ | bridges | ɪz | /ˈbɹɪ**ʤ.ɪz**/ |
| g – bag | ɡ | bagged | d | /ba**ɡd**/ | bags | z | /ba**ɡz**/ |
| **fricatives** |  |  |  |  |  |  |  |
| v – brave | v | braved | d | /bɹɛj**vd**/ | braves | z | /bɹɛj**vz**/ |
| th – breathe | ð | breathed | d | /brɪj**ðd**/ | breathes | z | /bɹɪj**ðz**/ |
| z – raze | z | razed | d | /rɛj**zd**/ | razes | ɪz | /ˈɹɛj**z.ɪz**/ |
| zh – collage | ʒ | collaged | d | /ˈcɔ.lɑː**ʒd**/ | collages | ɪz | /ˈcɔ.lɑː**ʒ.ɪz**/ |
| **nasals** |  |  |  |  |  |  |  |
| m – blame | m | blamed | d | /blɛj**md**/ | blames | z | /blɛj**mz**/ |
| n – feign | n | feigned | d | /fɛj**nd**/ | feigns | z | /fɛj**nz**/ |
| ng – hang | ŋ | hanged | d | /ha**ŋd**/ | hangs | z | /ha**ŋz**/ |
| **liquids & vowels** |  |  |  |  |  |  |  |
| l – mail | ɫ | mailed | d | /mɛj**ɫd**/ | mails | z | /mɛj**ɫz**/ |
| r – bar | ɹ | barred | d | /bɑ**ɹd**/ | bars | z | /bɑ**ɹz**/ |
| w – mow | w | mowed | d | /mə**wd**/ | mows | z | /mə**wz**/ |
| y – stray | j | strayed | d | /sʧɹɛ**jd**/ | strays | z | /sʧɹɛ**jz**/ |

*Remember to always practise pronouncing words with a vowel before and after!*

# Pattern

1. Voicing of suffix follows voicing of final sound.
2. Exceptions when suffix is too close to final sound:
   1. -ed is **/ɪd/** after final /t/ and final /d/.
   2. -s/es is **/ɪz/** after final /s, z, ʃ, ʒ, ʧ, ʤ/.
3. ⟨f⟩ usually changes to ⟨v⟩. ⟨th⟩ /θ/ usually changes to /ð/.