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Obtaining

Breaking

Grindstones can be obtained using any pickaxe. If mined without a pickaxe, it drops nothing.

Block	Grindstone
Hardness	2
Tool	
Breakir	ng time ^[A]
Default	10
Wooden	1.5
Stone	0.75
Iron	0.5
Diamond	0.4
Netherite	0.35
Golden	0.25

 Times are for unenchanted tools as wielded by players with no status effects, measured in seconds. For more information, see Breaking § Speed.

Natural generation

Grindstones naturally generate at village weaponsmiths.

Crafting



A grindstone generated inside a weaponsmith shelter structure.

Ingredients	Crafting recipe	Description
		In Bedrock Edition, grindstone recipes built with crimson,
Stick + Stone Slab + Any Planks		warped, or mangrove planks can use a slab of almost any of the











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Usage

A grindstone can be oriented in different directions. In Java Edition it doesn't need a supporting block. In Bedrock Edition it breaks if unsupported.

Repairing and disenchanting

When <u>used</u>, an interface is displayed with two input slots and one output slot.

Placing one enchanted item in an input slot forms a new *non-enchanted* item of the same type and durability in the output slot.

Interface for the grindstone Removing the item from the output slot consumes the input item and drops some experience.

Placing two items (enchanted or not) of the same type in the input slots forms a new non-enchanted item of that type and with a durability equal to the sum of the durabilities of the two input items, plus 5% of the maximum durability of that item (rounded down), up to its maximum durability. Both input items are consumed in the process. If either input item was enchanted, then removing the output item drops some experience.

The amount of experience dropped depends on the number of enchantments and levels of each, but it is partially random. For example, Fire Protection I gives 5-9 experience. [more information needed]

As with all non-enchanted items, the new item has no prior work penalty. A grindstone cannot remove a curse. Grindstones also do not remove an item's custom name.

If the action is not applicable (e.g. only one non-enchanted item, or the two inputs are different items), the arrow displays a red cross like that of an anvil and no item appears in the output slot.

The following tables show the durability bonuses of various items:

Armor	Leather	Gold	Chainmail	Iron	Diamond	Netherite
Helmet	2	3	8	8	18	20
Chestplate	4	5	12	12	26	29
Leggings	3	5	11	11	24	27
Boots	3	4	9	9	21	24











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Bow	Crossbow	Trident	Shield	Turtle Shell	Elytra	Carrot on a Stick	Warped Fungus on a Stick	Fishing Rod	Shears	Flint and Steel
19	23	12	16	13	21	1	5	3 ^[JE only] 19 ^[BE only]	11	3

Changing profession

If a village has a grindstone that has not been claimed by a villager, any villager who did not already pick a job site block has a chance to change their profession into weaponsmith.

Experience

When removing enchantments from items, the player gains experience equal to the minimum modified enchantment level of that enchantment. The final amount is a uniformly-distributed random amount between half the resulting sum (rounded up) and the sum itself.

Piston interactivity

Grindstones cannot be pushed by pistons or pulled by sticky pistons.

Sounds

Generic

Java Edition:

Sound	Subtitles	Source	Description	Resource location	Translation key	Volume	Pitch	[Collapse] Attenuation distance
	Block broken	Blocks	Once the block has broken	block .stone .break	subtitles .block .generic .break	1.0	0.8	16
	Block placed	Blocks	When the block is placed	block .stone .place	subtitles .block .generic .place	1.0	0.8	16
	Block breaking	Blocks	While the block is in the process of being broken	block .stone .hit	subtitles .block .generic .hit	0.25	0.5	16
	None[sound 1]	Entity- Dependent	Falling on the block with fall damage	block .stone .fall	None ^[sound 1]	0.5	0.75	16
	Footsteps	Entity-	Walking on	block .stone	subtitles .block	0.15	1.0	16

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Sound	Source	Description	Resource location	Volume	[Collapse] Pitch
	Blocks	Once the block has broken	dig .stone	1.0	0.8-1.0
	Blocks	When the block is placed	dig .stone	1.0	0.8-1.0
	Blocks While the block is in the process of being broker		hit .stone	0.37	0.5
	Players	Falling on the block with fall damage	fall .stone	0.4	1.0
	Players	Walking on the block	step .stone	0.3	1.0
	Players	Jumping from the block	jump .stone	0.12	1.0
	Players	Falling on the block without fall damage	land .stone	0.22	1.0

Unique

Java Edition:

Sound	Subtitles	Source	Description	Resource location	Translation key	Volume	Pitch	[Collapse] Attenuation distance
	Grindstone used	Blocks	When a grindstone is used	block.grindstone	subtitles.block .grindstone.use	0.5	0.9-1.0	16
	Weaponsmith works	Friendly Creatures	Randomly while a weaponsmith is working	<pre>entity.villager .work_weaponsmith</pre>	<pre>subtitles.entity .villager .work_weaponsmith</pre>	0.5	0.8-1.2	16

Bedrock Edition:

Sound	Source	Description	Resource location	Volume	[Collapse] Pitch
	Blocks	When a grindstone is used	block .grindstone .use	0.5	1.0
	Blocks	Randomly while a weaponsmith is working	block .grindstone .use	0.5	1.0

Data values



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Grindstone	Item	

Bedrock Edition:

Name	Identifier	Numeric ID	Form	Item ID ^[i 1]	Translation key
Grindstone	grindstone	450	Block & Giveable Item ^[i 2]	Identical ^[i 3]	tile.grindstone.name

- 1. ID of block's direct item form, which is used in savegame files and addons.
- 2. Available with /give command.
- 3. The block's direct item form has the same id as the block.

Block states

See also: Block states

Java Edition:

Name	Default value	Allowed values	Description
face	wall	ceiling floor wall	What the grindstone is attached to.
facing	north	east north south west	The direction the grindstone is facing. Opposite from the direction the player faces when placing a grindstone on the floor or ceiling.

Bedrock Edition:

Name	Metadata Bits	Default value	Allowed values	Values for Metadata Bits	Description
attachment	0x4 0x8	standing	standing hanging side multiple	0 1 2 3	What the grindstone is attached to.
direction	0x1 0x2	Θ	0 1 2	0 1 2	The direction the grindstone is facing. Opposite from the direction a player faces when placing the block.





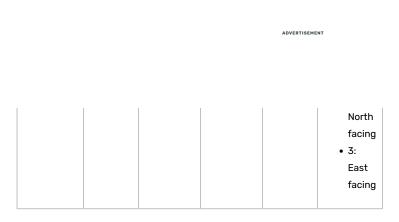












Achievements

PS4 Other Contact description Contact (if different) Use a Grindstone to get experience from an enchanted contact (if different) Disenchanted Contact (if different) Disenchanted Contact (if different) Other Contact (if different)	lcon	
Grindstone to get experience – 20G from an	Othe	typ (PS
to get experience – 20G from an		
Disenchanted experience – 20G from an		
from an		
		Bron
anahantad		
enchanted		
item.		

History

For a more in-depth breakdown of changes to textures and models, including a set of renders for each state combination, see /Asset history

Java Edition				
1.14	18w44a	Added grindstones.		
		Grindstones are currently obtainable only from the creative inventory and do not have any functionality.		
	18w45a	Added cullface argument to the feet of the grindstone.		
	18w48a	The texture of grindstones has been changed.		
		Added a crafting recipe for grindstones.		
		Grindstones are now functional and used to repair items and tools.		
		Grindstones can now remove all non-curse enchantments from an item, in which experience is reimbursed to the player.		
		Grindstones now generate in the updated plains villages.		
	18w49a	Grindstones now generate in the updated savanna villages and the new snowy tundra villages.		
	18w50a	Grindstones now generate in the updated desert and taiga villages.		
	19w03a	Added sounds for grindstones.		
	19w11a	Grindstones now serve as weaponsmith		

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Bedrock Edition					
1.9	2.0	beta 1.9.0.2	Added grindstones, but they have no functionality.		
1.10.0		Grindstones can now generate in village weaponsmith houses.			
	beta 1.10.0.3	The texture of grindstones has been changed.			
		Added a crafting recipe for grindstones.			
1.11.0			Grindstones are now functional.		
		beta 1.11.0.1	Grindstones are no longer immune from explosions.		
Legacy Console Edition					
		1.91	Added grindstones.		
		1.92	The texture of grindstones has been changed.		

Issues

Issues relating to "Grindstone" are maintained on the bug tracker. Report issues there (https://bugs.mojang.com/issues/?jql=projec t%20in%20%28MC%2C%20MCPE%29%20and%20%28resolution%20 is%20empty%20or%20resolution%20in%20%281%2C%202%2C%20 6%29%29%20and%20%28summary%20~%20%22Grindstone%22%2 9%20order%20by%20resolution%20desc).

Trivia

• Before the grindstone was added, a different method to remove enchantments was floated for Update Aquatic, which would have been by means of feeding items to a mob known as "the Great Hunger", but the mob lost the MINECON Earth 2017 mob vote to the phantom.

Gallery





Grindstones on a wall, floor A grindstone at a and ceiling.

blacksmith.

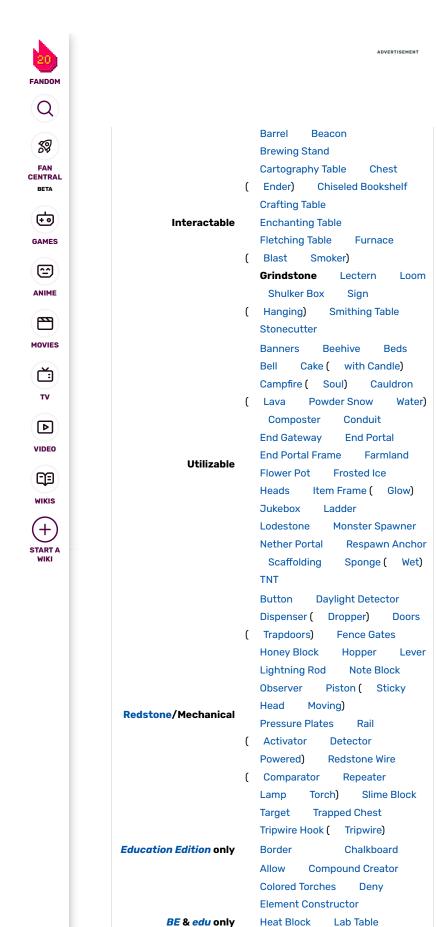
References



Blocks Natural

[Collapse] [Fynand]

9/4/24, 14:31 9 of 12



[Expand]

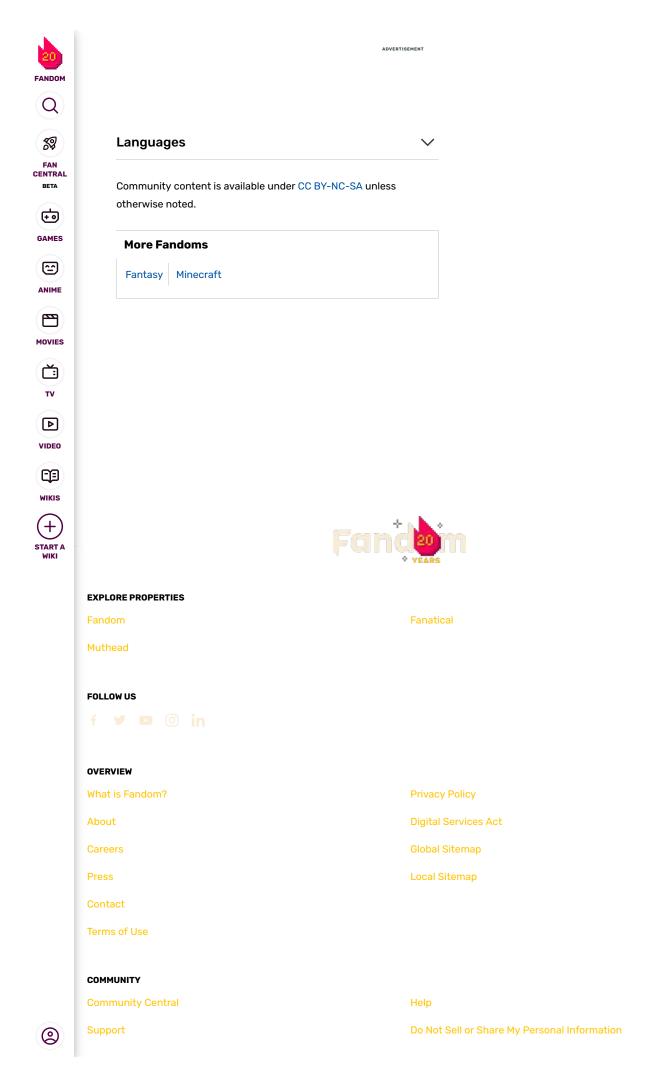
[Expand]

Material Reducer
Underwater TNT
Underwater Torch

Creative only

Commands only Unimplemented

Hausad



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