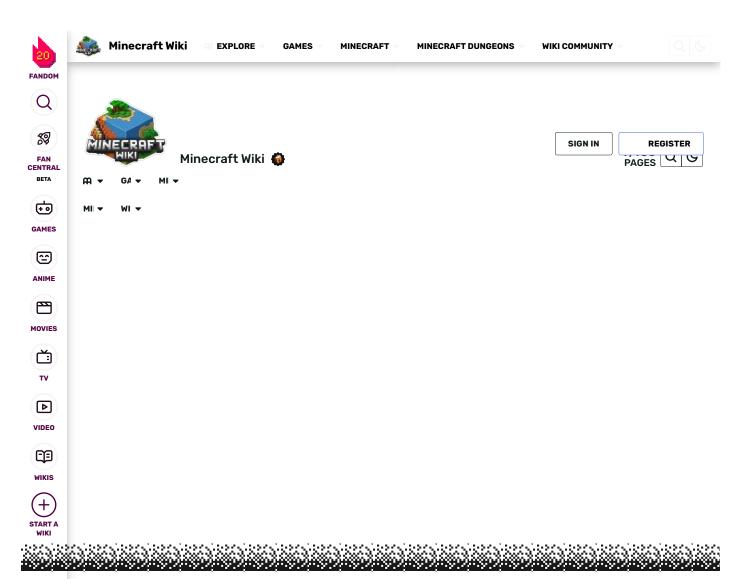
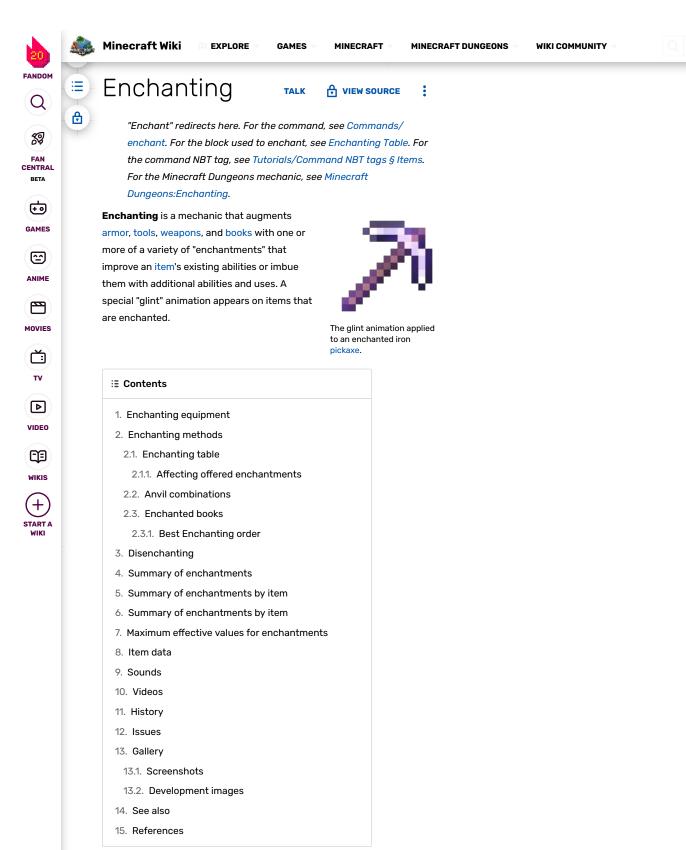
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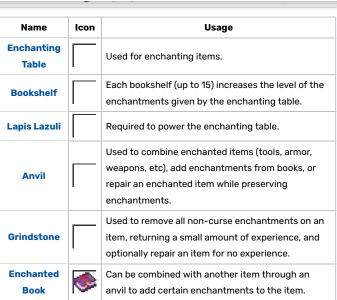




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## **Enchanting methods**

There are four ways to enchant an item in Survival mode:

• Through an enchanting table in exchange for experience points and lapis lazuli. Only unenchanted items may be enchanted this way.



An enchanting table surrounded by bookshelves.

- Through an anvil, combining an enchanted book with an item.
- . Through an anvil, combining two of the same item with different existing enchantments into a single item that has the enchantments of both.
- · Through a librarian villager, which may enchant books respectively for emeralds instead of lapis lazuli and experience, which instead gives the player experience just like every trade.

A player may also obtain items already enchanted:

- Through a villager, who may trade some enchanted items for emeralds.
- By fishing, which gives a chance of obtaining enchanted items.
- Through a zombie, drowned, husk, piglin, skeleton, stray, wither skeleton, and zombified piglin if they have enchanted items and are killed by a player. They have an 8.5% chance to drop each individual
- By finding them in treasure chests in locations such as end cities. ancient cities, shipwrecks, mineshafts, dungeons, desert temples, jungle temples, woodland mansions, ocean ruins, strongholds, ruined portals, pillager outposts, and bastion remnants.
- Due to bartering with piglins. When given gold, piglins have a small chance to drop an enchanted book or iron boots with the Soul Speed enchantment (random level 1-3).
- Through killing pillagers and vindicators in raids on Bedrock Edition.

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enchanted with the <code>/give</code> command, the maximum enchantment level is 255 on Java Edition. In Creative mode, items can be enchanted via an anvil and enchanted books, with no experience points required. Enchanted books are available in the Creative mode inventory, with individual book displays for the highest level of each enchantment and other levels available via the "Search" tab.

#### **Enchanting table**

Main article: Enchanting mechanics

An item can be enchanted by <u>using</u> an enchanting table and placing the item in the input slots and uses 1–3 lapis lazuli but can hold up to 64 lapis in its dedicated slot. Upon placing the item, three (pseudo)randomized options appear on the right of the GUI. The glyphs(Random galactic alphabet sentances) here do not affect the enchantment, but hovering over a



Enchanting table interface.

presented enchantment shows one enchantment to be applied (on mobile devices, the player can tap an enchantment before putting in the lapis lazuli or hold the enchantment before release). The only choices available have a level requirement equal to or below the player's current level and a lapis lazuli requirement equal to or below the number of lapis lazuli placed in the table. Each option imbues the item with a randomized set of enchantments that are dependent on the number of experience levels required (e.g. a level 10 enchantment can give a pickaxe the "Efficiency II" enchantment); the actual level cost and the number of lapis lazuli required have no effect.

Although the player must have at least the level requirement to get an enchantment, the number of levels that the player is charged is the same as the lapis lazuli requirement. For example, if the third enchantment listed is a level 30 enchantment, the player must have at least 30 levels, but pay only 3 levels and 3 lapis lazuli.

The level requirement influences the quantity, type, and level of enchantments instilled in the item, with a higher experience level generally resulting in more and/or higher-level enchantments.

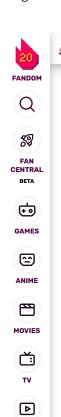
Nevertheless, there is a significant random factor, and even a level 30 enchantment (the maximum) doesn't guarantee more than one enchantment, or even that enchantments are "maximum strength" — a level 30 enchantment can still yield Fortune II or Efficiency III alone, for example. On the other hand, it is possible for multiple different enchantments to be given from one use of the enchanting table. For example, a level 30 enchantment applied to a pickaxe may yield both Efficiency IV and Unbreaking III.

To increase the enchantment level, bookshelves can be placed next to the enchanting table while keeping one block of air between them. To gain access to the previously mentioned level 30 enchantments, a total of 15 bookshelves need to be placed around the enchanting table. See the Enchantment Mechanics page for more detailed information on this.

Enchanting a book produces an enchanted book, which does nothing on its own, but effectively "saves" the enchantment for later application to another item with an anvil.

Unlike with an anvil. using the enchanting table while on Creative still

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when using the enchanting table while already at level zero.

#### Affecting offered enchantments

Enchanting any item at any enchantment level changes the player's enchantment seed, which changes the possible enchantments for every item at every enchantment level. Thus, if none of the available enchantments for a tool are desired, 1 lapis lazuli and 1 level could be spent to enchant a book or a different tool to refresh the list.

The possible enchantments depend on the player's enchantment seed, the item type, and material, and the enchantment level (1–30). The following actions do not affect the possible enchantments:

- removing the item and putting it back in
- · clicking on the item slot with a different item
- · using a different item of the same type and material
- replacing or moving the table (but keeping the same number of bookshelves)
- · using a different table with the same number of bookshelves, or
- replacing or rearranging the bookshelves without changing their total number.

Changing the enchantment levels offered by adding, removing, or blocking bookshelves alters the enchantments shown, but does not change possible enchantments; using another enchanting table with the previous bookshelf number still shows the previous enchantments. The enchantments for a particular enchantment level (with the same seed and item) do also differ depending on which row they appear in, but they are not "better" or "worse" based on the row despite the different resource costs.

#### **Anvil combinations**

Main article: Anvil mechanics

An anvil can be used to combine the enchantments of two items, sacrificing one of them and repairing the other. The items must be compatible; they must either be the same type and material (such as two iron swords) or an item and an enchanted book with an applicable enchantment (such as a bow and an Infinity enchanted book).

Combining two enchanted items, books or one of each with the same enchantment at the same level produces an item or book with the next higher level of that enchantment up to the maximum allowed in Survival mode; for example, a book with Thorns I and Unbreaking II combined with a book with Unbreaking II produces a book with Thorns I and Unbreaking III.

To combine items, the player places the target item in the anvil's first slot and the sacrifice item in the second slot. If the combination is allowed, the resulting enchanted item appears in the anvil's output slot and an experience level cost, labeled "Enchantment Cost", appears below (green if the player has enough experience levels, red if they don't). To complete the enchanting, the player removes the enchanted item from the anvil's output slot, and their experience level is reduced accordingly.

The experience cost depends on the enchantments, with highly enchanted items costing more. If the target item is also being repaired, that costs more as well. The target item can also be renamed, at additional cost. There is also an accumulating surcharge for prior work done on

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steps. For example, a damaged enchanted bow may be repaired on an anvil with an ordinary bow, and then another enchanted bow may be used to combine enchantments with the repaired bow.

#### **Enchanted books**

Main article: Enchanted Book

Enchanted books can be made by enchanting a book in an enchanting table at the cost of experience points. They can also be found in the chests of several structures, purchased with emeralds from a librarian villager, or caught while fishing.

Enchanted books can be applied to tools, weapons, and armor, or combined with other enchanted books in an anvil. In this way, some enchantments that cannot normally be obtained on an item through use of the enchanting table can still be applied to those items, such as applying Thorns to boots.

Although enchanted books can have multiple enchantments of any type, only enchantments appropriate to a given item type are applied to that item when combined in an anvil. For example, an enchanted book may have both the Respiration and Power enchantments, but the Respiration enchantment is lost if the book is applied to anything but a helmet or a turtle shell. Likewise, the Power enchantment is lost if the book is applied to anything but a bow.

In Creative mode, enchanted books can be used to apply any enchantment to any item, such as a stick having Knockback II on Java Edition. However, mutually-exclusive enchantments, such as Infinity and Mending, cannot be applied this way or even via <a href="#">/enchant</a> (though both enchantments function as normal when obtained on a bow through the <a href="#">/give</a> command).

The experience costs for *using* books are considerably less than for combining items with similar enchantments since the books themselves cost levels to create. However, it's still an extra cost, and enchanting items directly has a chance to get multiple enchantments. The advantage of books is that they can be stockpiled for use on an item of choice and allow for *controlled* combinations. For example, a Silk Touch book can be used on an axe, pickaxe, or shovel, and the player can decide which item receives which enchantment.

#### **Best Enchanting order**

Use Order Calculator (https://iamcal.github.io/enchant-order/) to minimize experience loss when merging two items.

#### Disenchanting

The only way to disenchant items is via the grindstone or by repairing the items via the crafting grid. Using the grindstone removes all enchantments (except Curse of Binding and Curse of Vanishing, also known as curses) but gives some experience back based on the level of the enchantment(s) and their value.

## Summary of enchantments

See also: Enchanting/Levels

Each enchantment in the table below includes attributes that are possible for the player to acquire legitimately in Survival mode. Other combinations

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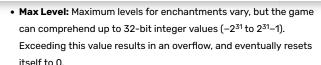


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- Primary Items: The items that can receive the enchantment legitimately in Survival mode by using an enchanting table. Items of any material can be enchanted (some more easily than others – see  $\,$ Enchantment mechanics).
- Secondary Items: Items that, in Survival mode, cannot receive the enchantment from an enchanting table but can from an enchanted
- Weight: Relative probability of the enchantment being offered.

Name	Summary	Treasure <sup>[note 1]</sup>	Incompatible With	Max Level	Primary Items	Secondary Items	Weight
Aqua Affinity	Increases underwater mining speed.	No		I(1)			2
Bane of Arthropods	Increases damage and applies Slowness IV to arthropod mobs (spiders, cave spiders, silverfish, endermites and bees).	No	Smite, Sharpness	V(5)	[BE only]	[JE only]	5
Blast Protection	Reduces explosion damage and knockback.	No	Fire Protection, Protection, Projectile Protection	IV(4)			2
Channeling	During thunderstorms, trident summons a lightning bolt on the target when hitting it.	No	Riptide	I(1)			1
Cleaving [upcoming: JE Combat Tests]	Increases damage and shield stunning.	Unknown	Sharpness, Bane of Arthropods, Smite	III(3)			
Curse of Binding	Items cannot be removed from armor slots.	Yes		I(1)			1
Curse of Vanishing	Item disappears on death.	Yes		I(1)		[BE only]	1
Depth Strider	Increases underwater movement speed.	No	Frost Walker	III(3)			2
	Increases tool						

		for axes to					
		disable shields.					
		Reduces fall					
Fe	eather Falling	damage.	No		IV(4)		
		Sets target on					
Fi	re Aspect	fire.	No		II(2)	[upcoming: JE Combat Tests]	
		Reduces fire					
		damage and		Blast			
-	in Dustration	burn time.		Protection,	*****		
FI	re Protection	Mutually exclusive with	No	Protection, Projectile	IV(4)		
		other		Protection			
		protections.					
		Arrows shot					T
		are ignited and					
FI	ame	deal fire	No		I(1)		
		damage to the target.					
		Increases the					+
Fo	ortune	amount of	No	Silk Touch	III(3)		
		block drops.					
		Allows the					
		player to walk					
Fr	rost Walker	on water by freezing the	Yes	Depth Strider	II(2)		
		water under					
		their feet.					
		Increases					
		damage					
		against aquatic mobs. In					
		Bedrock					
In	npaling	Edition,	No		V(5)		
		increases					
		damage					
		against mobs					
		in water or rain.  Prevents					+
		consumption					
		of normal					
In	finity	arrows (tipped	No	Mending	I(1)		
		arrows and					
		spectral arrows are consumed).					
		Increases					+
Kr	nockback	knockback.	No		II(2)		
Lo	ooting	Increases mob	No		III(3)		
		loot.					+
1	oyalty	Trident returns after being	No	Riptide	III(3)		
	- //	thrown.	110		111(3)		
		Increases rate					t
1.	uck of the Sea	of good loot	No		III(3)		
		(enchanting	110		111(3)		
_		books, etc.).					+
١.	ure	Decreases time	No		III(3)		

		Repairs the					
Mendi	ng	item using experience.	Yes	Infinity	I(1)		
Multis	hot	Fires 3 arrows at the same time.	No	Piercing	I(1)		
Piercii	ng	Arrows pierce entities, allowing for arrows to pierce through stacks of mobs.	No	Multishot	IV(4)		
Power		Increases arrow damage.	No		V(5)		
Projec	tile Protection	Reduces damage from projectiles.	No	Protection, Blast Protection, Fire Protection	IV(4)		
Protec	otion	Reduces generic damage.	No	Blast Protection, Fire Protection, Projectile Protection	IV(4)		
Punch	1	Increases arrow knockback.	No		II(2)		
Quick	Charge	Decreases crossbow charging time.	No		III(3)		
Respir	ration	Extends underwater breathing time.	No		III(3)		
Riptid	е	Trident launches player with itself when thrown while in water or rain.	No	Channeling, Loyalty	III(3)		
Sharp	ness	Increases melee damage.	No	Bane of Arthropods, Smite	V(5)	[BE only]	[JE only]
Silk To	uch	Mined blocks drop themselves.	No	Fortune	I(1)		[BE only]
Smite		Increases damage to the undead.	No	Bane of Arthropods, Sharpness	V(5)	[BE only]	[JE only]
Soul S	speed	Increases movement speed on soul sand and soul soil.	Yes		III(3)		
	oing Edge	Increases sweeping	No		III(3)		



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Thorns	Taking damage causes the attacker to also take damage.	No	III(3)		1
Unbreaking	Reduces durability damage.	No	III(3)		1
Wind Burst	Any smash attacks causes the player a wind charge.	Yes	III(3)		1

<sup>1.</sup> Treasure enchantments are those that can't be obtained using an enchantment table.

# Summary of enchantments by item

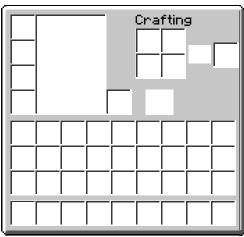
Enchantments that have multiple levels are shown with their maximum level numbers. Mutually exclusive enchantments can be combined using |-

# Summary of enchantments by item

Enchantments that have multiple levels are shown with their maximum level numbers. Mutually exclusive enchantments can be combined using commands (e.g., /give @s bow{Enchantments:

[{id:infinity,lvl:1},{id:mending,lvl:1}]} 1 ). Also, a player can exceed the maximum levels of enchantments (e.g., /give @s netherite\_sword{Enchantments:[{id:fire\_aspect,lvl:10}]}

 $\overline{\mathbf{1}}$  ). However, if that number goes above  $\overline{\mathbf{10}}$  , it looks like this:

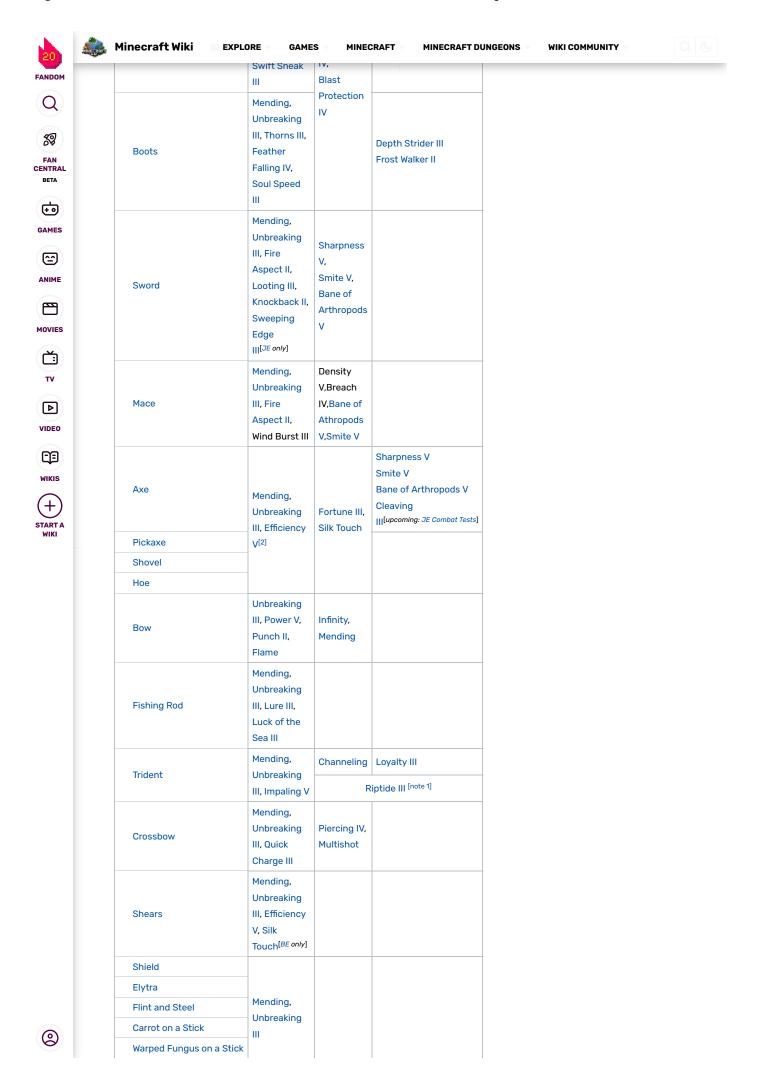


[1]

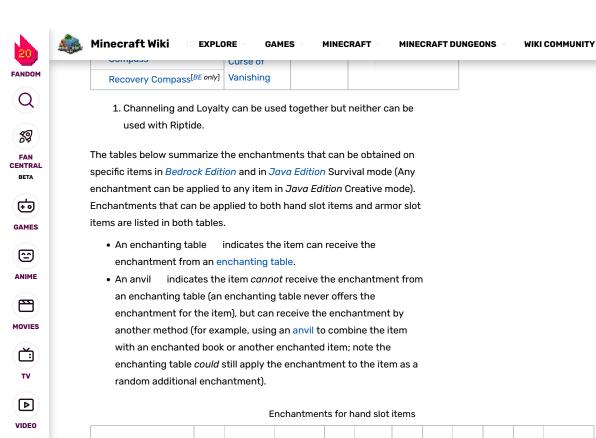
Item	Any combination of	Only one from each column
Helmet	Mending, Unbreaking III, Thorns III,	
Turtle Shell	Respiration III, Aqua Affinity	Protection
Chestplate	Mending, Unbreaking III, Thorns III	IV, Projectile Protection
	Mending,	IV,

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		Literiantine	 			
Enchantment (Max)	[JE only]	[BE only]				[BE only]
Bane of Arthropods (V)						
Channeling (I)						
Cleaving (III) [upcoming: JE Combat Tests]						
Curse of Vanishing (I)						
Efficiency (V)						
Fire Aspect (II)						
Flame (I)						
Fortune (III)						
Impaling (V)						
Infinity (I)						
Knockback (II)						
Looting (III)						
Loyalty (III)						
Luck of the Sea (III)						
Lure (III)						
Mending (I)						
Multishot (I)						
Piercing (IV)						
Power (V)						
Punch (II)						
Quick Charge (III)						
Riptide (III)						
Sharpness (V)						
Silk Touch (I)			[BE only]			



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Sweeping Edge (III)												
Unbreaking (III)												

#### Enchantments for armor slot items

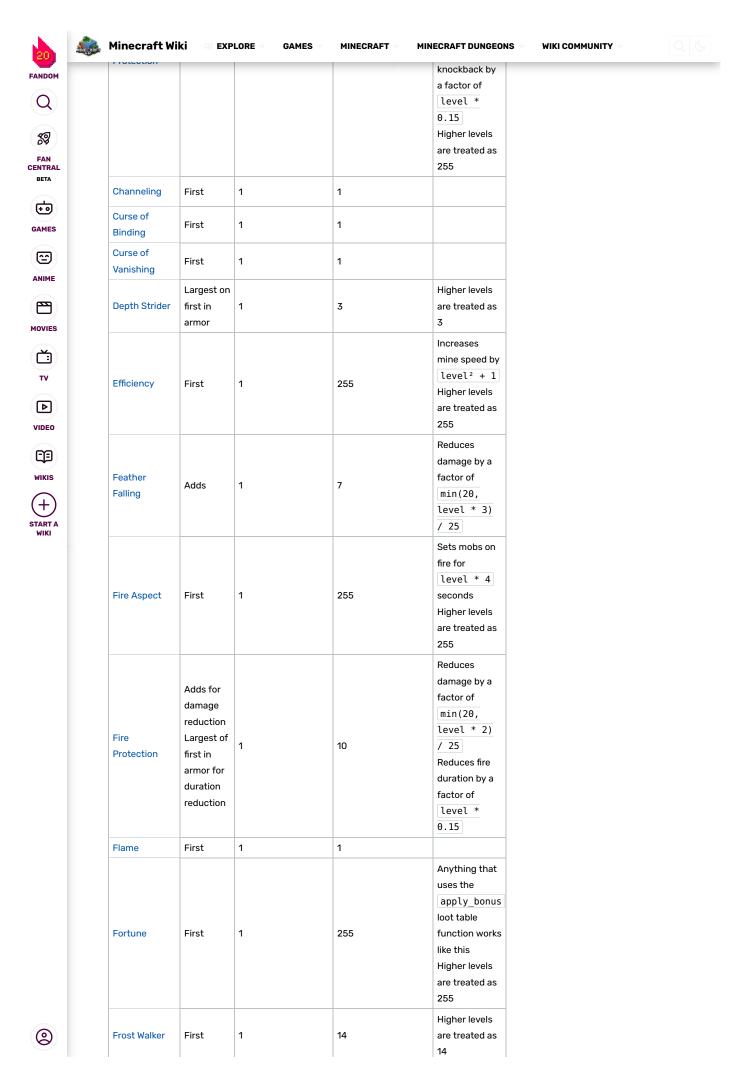
Enchantment (Max)			
Aqua Affinity (I)			
Blast Protection (IV)			
Curse of Binding (I)			
Curse of Vanishing (I)			
Depth Strider (III)			
Feather Falling (IV)			
Fire Protection (IV)			
Frost Walker (II)			
Mending (I)			
Projectile Protection (IV)			
Protection (IV)			
Respiration (III)			
Soul Speed (III)			
Swift Sneak (III)			
Thorns (III)			
Unbreaking (III)			

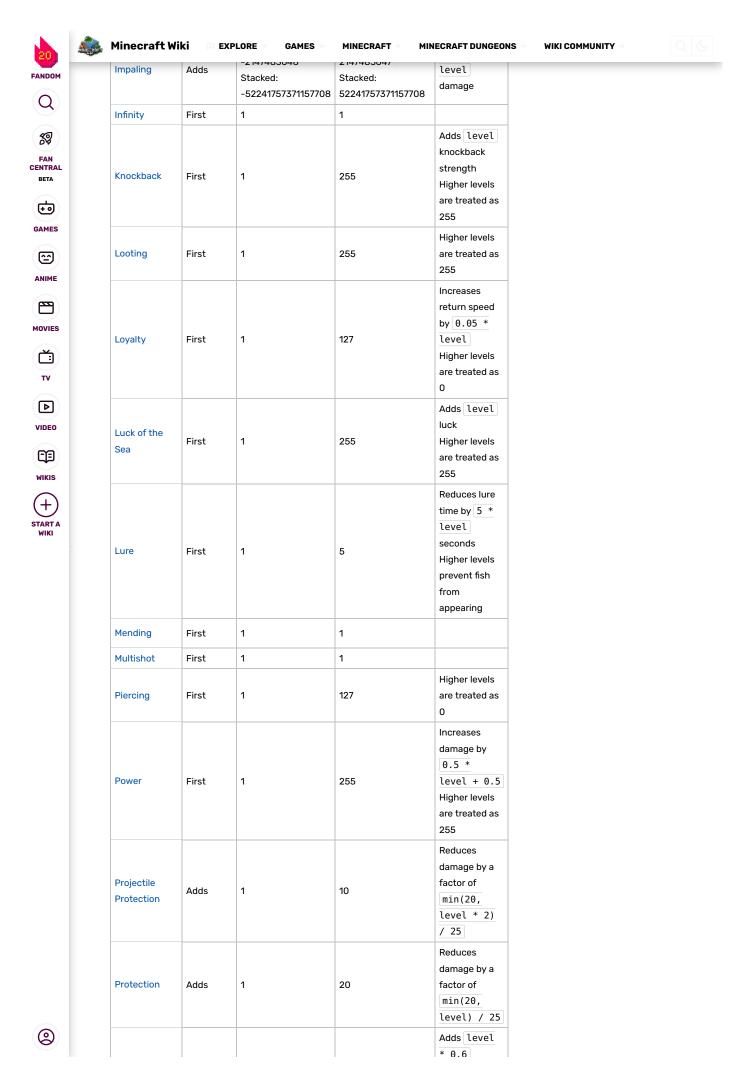
# Maximum effective values for enchantments

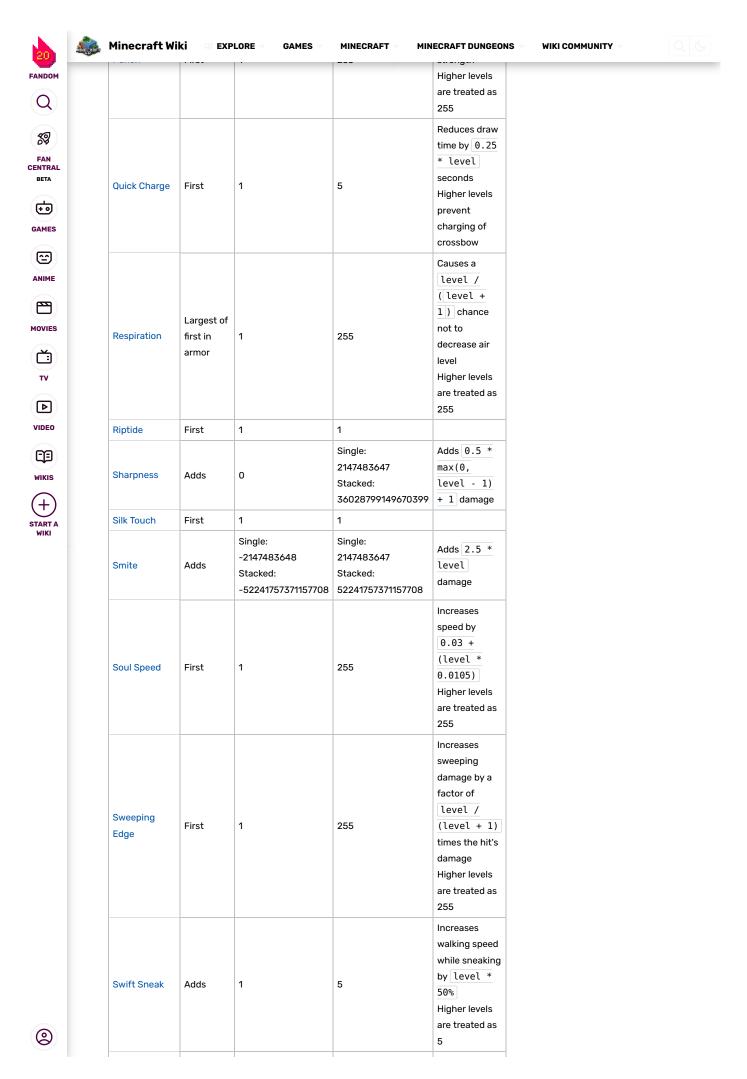
This section is missing information about a better lead section with a better summary.

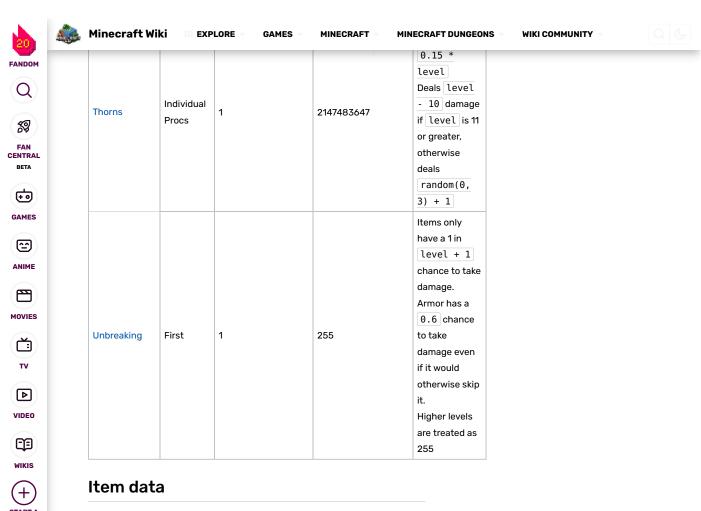
A table shows the effective limits for enchantments (found also here (http s://gist.github.com/tryashtar/4e3917bbd59532463d280755a63705d0)).

Enchantment	Stackable	Effective min	Effective max	Notes
Aqua Affinity	Largest on first in armor	1	1	
Bane of Arthropods	Adds	Single: -2147483648 Stacked: -52241757371157708	Single: 2147483647 Stacked: 52241757371157708	Adds 2.5 * level damage Affects arthropods with slowness amplifier 3 for 1 + random(0, level / 2) seconds
				Reduces damage by a factor of min(20, level * 2) / 25









tag: The item's main tag.

 Enchantments: Contains enchantments on this item that affect the way the item works.

: A single enchantment.

id: The name of the enchantment.

IvI: The level of the enchantment, where 1 is level 1. Values are clamped between 0 and 255 when reading.

StoredEnchantments: Contains enchantments for enchanted books.

: A stored enchantment, identical structure to each enchantment in **Enchantments**.

**RepairCost**: Number of experience levels to add to the base level cost when repairing, combining, or renaming this item with an Anvil.

#### **Sounds**

#### Java Edition:

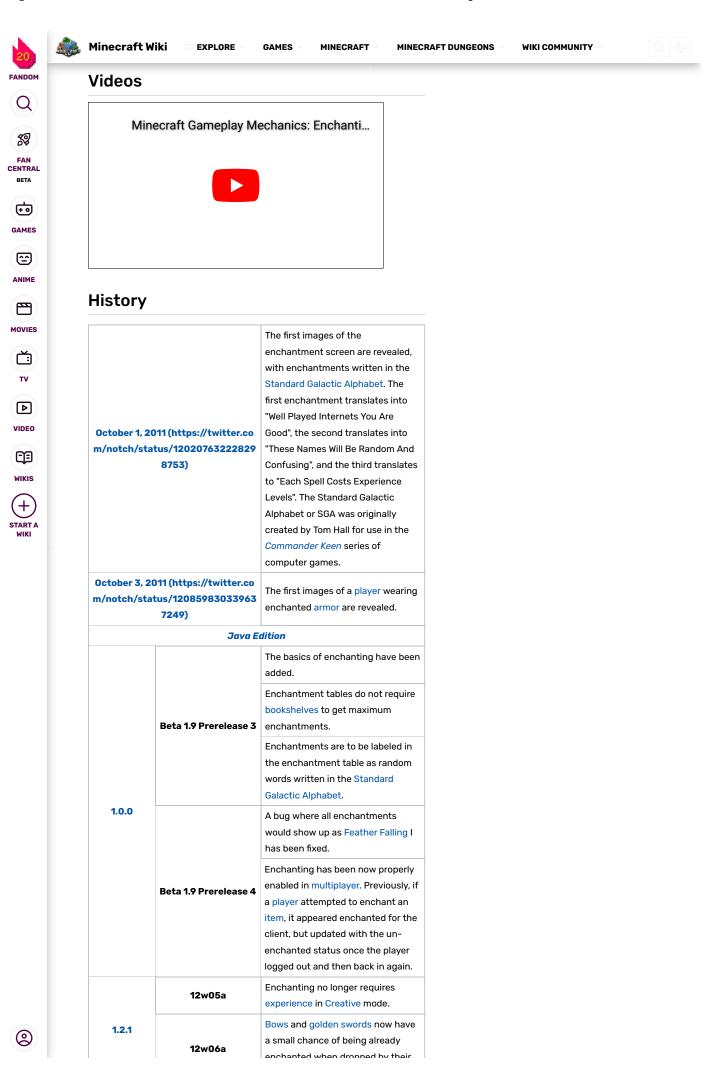
Sound	Subtitles	Source	Description	Resource location	Translation key	Volume	Pitch	[Collapse] Attenuation distance
	Enchanting Table used	Blocks	When an item is enchanted	block .enchantment_table .use [sound 1]	subtitles.block .enchantment_table .use [sound 1]	1.0	0.9-1.0	16

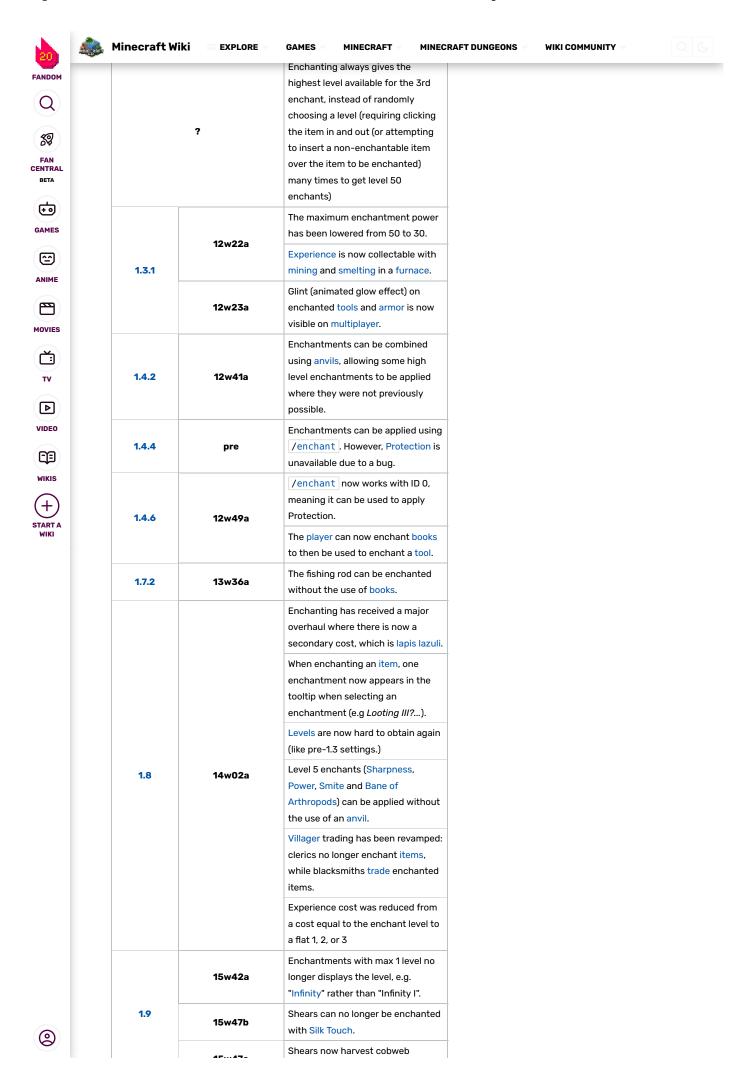
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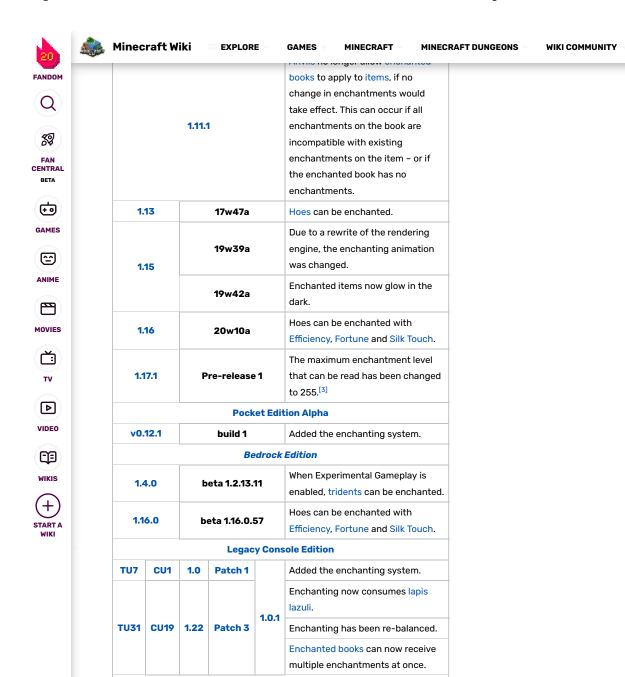
#### Bedrock Edition:

Sound	Source	Description	Resource location	Volume	[Collapse] Pitch
		When an	block		
	Blocks	item is	.enchanting table	1.0	1.0

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### **Issues**

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Issues relating to "Enchanting" are maintained on the bug tracker. Report issues there (https://bugs.mojang.com/issues/?jql=project%20in%20%28 MC%2C%20MCPE%29%20and%20%28resolution%20is%20empty%20or%2 Oresolution%20in%20%281%2C%202%2C%206%29%29%20and%20%28su mmary%20-%20%22Enchanting%22%29%20order%20by%20resolution%2 Odesc).

New Nintendo 3DS Edition

Added enchantments.

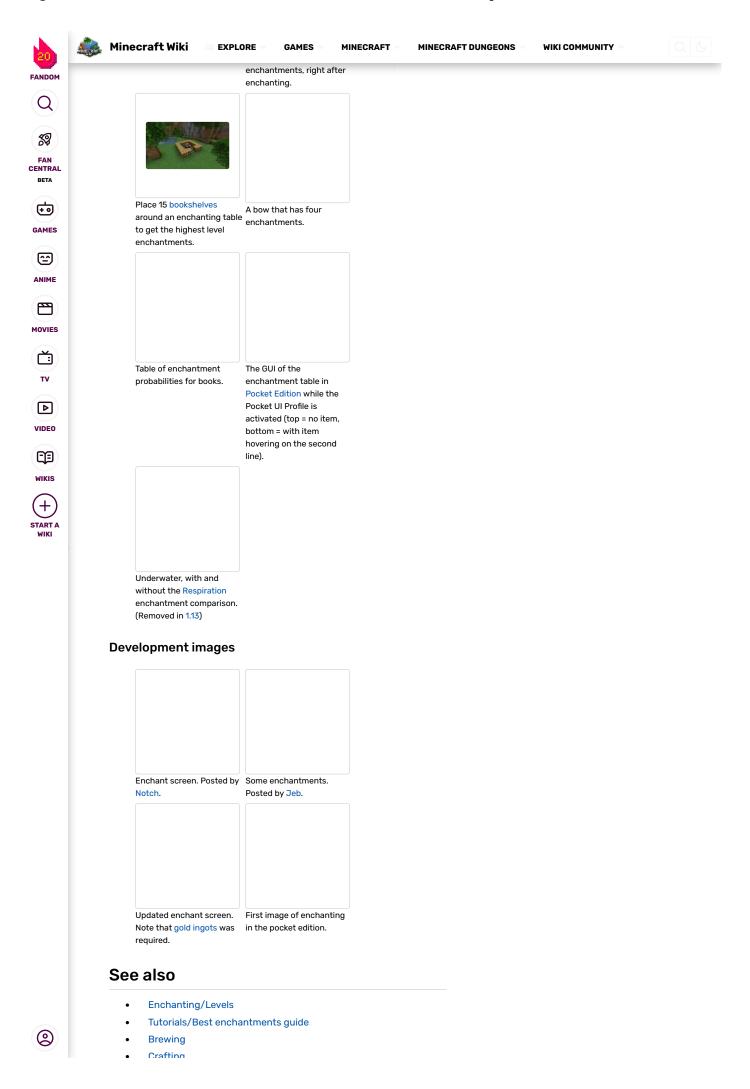
## Gallery

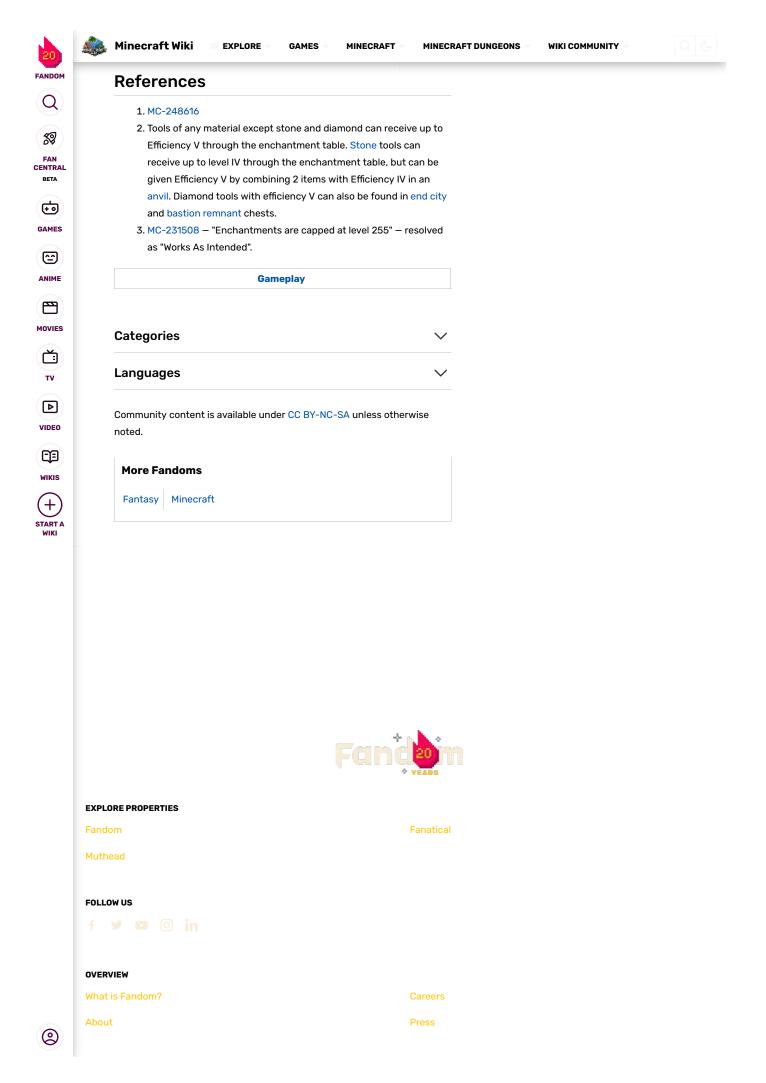
#### **Screenshots**





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