Excavation

Excavation is the ability in McMMO related to using a shovel to dig anything on the soil chart, including exotic materials like Soul Sand. High-level Excavators can produce diamonds from dirt easily. (Like most McMMO abilities, it will only work if McMMO drops can spawn on the blocks, and not if they are funnelled into the player's inventory like with some plugins.)

- **The mcMMO Excavation Skill Level is maxed at level 1000 on United Factions.**

Abilities

EXCAVATION HAS NEW ABILITIES. LIST THEM HERE!

Increasing skill level

You level up by digging materials that are mined faster with a shovel.

Scouring the entire surface, or at least large hills, is the fastest way to level Excavation.

Another good way is to stock up on shovels and make a trapped snowman. This will allow you to dig the snow underneath it which is constantly refreshed. As the snow is fast to break, it will wear out your tools very quickly, but it will also help you to level very quickly in the comfort of your own home without having to worry about finding stuff to excavate. Keep an iron block nearby and use an iron shovel to clear the snow. When you are running low on durability, just repair the shovel and keep on digging. This method trains up Excavation and Repair at the same time. Stone can also be used at the cost of maintanance and XP. With the right scripting tools and settings, this can be automated as a client-side bot. It can also be automated with dispensers and a timer, and shovels can be gained through a mob grinder if you're lucky, or in the newest update of Minecraft, automatically crafted from iron ore, coal, and wood through hoppers and recipe selection.

You can also use Giga Drill Breaker in bursts to speed up digging, at the expense of extra durability wear on your shovel. To counteract this, use diamond shovels. Past level 350, it is more common than not to get at least 1 diamond from a single Giga Drill Breaker, allowing you to repair the shovel whenever durability starts to drop.

Drops	Block	Skill Req.	XP Rewarded	Chance

Image not found or type unknown **Dirt**	Image not found or type unknown Grass	0	40	100%
Image not found or type unknown **Dirt**	Image not found or type unknown Mycelium	0	40	100%
Image not found or type unknown **Dirt**	Image not found or type unknown Dirt	0	40	100%
Snow	**Snow Layer**	**0**	**20**	**100%**
Image not found or type unknown **Gravel**	Image not found or type unknown Gravel	0	40	90%
Image not found or type unknown **Flint**	Image not found or type unknown Gravel	0	40	10%
Image not found or type unknown **Sand**	Image not found or type unknown Sand	0	40	100%
Image not found or type unknown **Soul Sand**	Image not found or type unknown Soul Sand	0	40	100%
Image not found or type unknown **Clay (x4)**	Image not found or type unknown Clay Block	0	40	100%
Image not found or type unknown **Empty Map**	Image not found or type unknown Clay Block	25	200	2%
Image not found or type unknown **Glowstone Dust**	Image not found or type unknown Grass	25	80	5%
Image not found or type unknown **Glowstone Dust**	Image not found or type unknown Mycelium	25	80	5%
Image not found or type unknown **Glowstone Dust**	Image not found or type unknown Dirt	25	80	5%
Image not found or type unknown **Glowstone Dust**	Image not found or type unknown Sand	25	80	5%
Image not found or type unknown **Gunpowder**	Image not found or type unknown Gravel	75	30	10%
Image not found or type unknown **Slimeball**	Image not found or type unknown Clay block	150	10	1%
Image not found or type unknown **Bone**	Image not found or type unknown Gravel	175	30	10%
Image not found or type unknown **Egg**	Image not found or type unknown Grass	250	100	1%
Image not found or type unknown **Music Disc (13)**	Image not found or type unknown *Any*	250	3000	0.05%
Image not found or type unknown **Apple**	Image not found or type unknown Grass	250	100	0.1%

Image not found or type unknown **Apple**	Please add this back [The previous content broke the entire chart.]	100	0.1%	
Image not found or type unknown **Soul Sand**	Image not found or type unknown Sand	650	80	0.5%
Image not found or type unknown **Spider web**	Image not found or type unknown Clay block	750	150	5%
Image not found or type unknown **Cake**	Image not found or type unknown *Any*	750	3000	0.05%
Image not found or type unknown **Netherrack**	Image not found or type unknown Gravel	850	3000	0.5%
Image not found or type unknown **Nether Quartz**	Image not found or type unknown *Any*	850	3000	0.5%

Block	Average XP/block
Dirt	80.33
Gravel	95.account6for \4

*Calculated with assuming you can receive every drop and your excavation level is over 900. XP/block can vary between servers as it's configurable by server admins.

Leveling Table (Theoretical Time)

Level	Total Blocks	Total XP	Total Time (seconds)
1	107.5	4300	
10	695	27800	500
25	1970	78800	900
50	4290	171600	1400
75	7500	300000	1900
100	11422.5	456900	3000
150	21392.5	855700	3500
175	27445	1097800	9300
250	49860	1994400	16300
350	80537.5	3221500	28100
500	149355	5974200	36100

650	187812.5	7512500	45600
750	224747.5	8989900	78886
850	293855	15260000	64100
1000	350245	19731200	71900

This table does not account for earning bonus items or dirt, or for breaking blocks besides dirt for more XP or different drops. Times may also vary based on the player's focus and efficiency at aiming and mining new blocks continuously, what enchants are used, , on tick lag, block lag, and latency, the player's skill level, and whether Giga Drill Breaker is in use continuously.

*It's calculated without receiving drops other than dirt from it. Times may vary depending on the shovel used or other variables, such as accuracy. These variables can be negated using client-side bots.

Trivia

- The 'Giga Drill Breaker' ability is a reference to the move 'Giga Drill Breaker' from the anime "Tengen Toppa Gurren Lagann".
  - The original name of the move was "Giga Drill Break" but "Giga Drill Breaker" stuck with the public due to Japanese pronunciation of English. It also was not used to harvest materials, instead being relegated to combat.

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