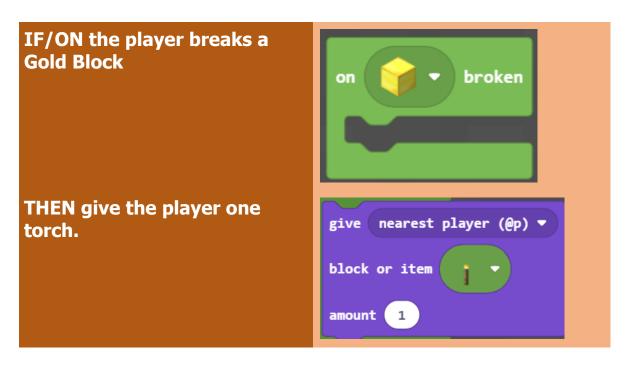
Give Code

A give command will place an item or block into the inventory of the desired target. When coding, we must consider the event which will cause the give command to run.

<u>Using MakeCode for Game Design - Minecraft Education Edition</u>



Let's consider the following example:



Results - IF/ON the player breaks a gold block THEN the nearest player will receive one torch.

item

To give the player a different item use the additional item token.

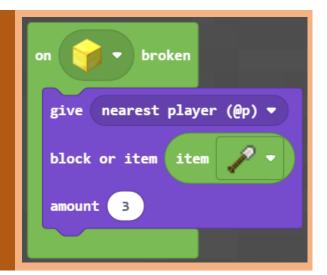
Result - IF/ON the player breaks a gold block THEN the nearest player will receive one shovel.



amount 3

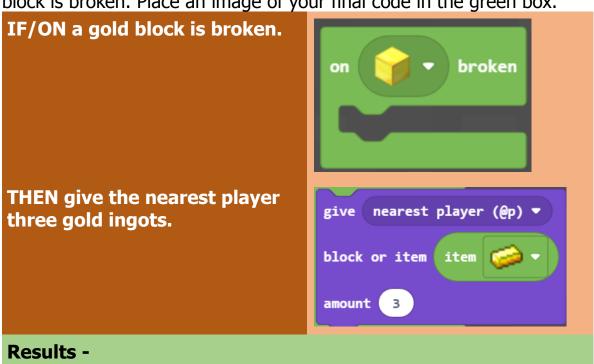
Increase the amount

Result - IF/ON the player breaks a gold block THEN nearest player will receive three shovels.



Your Turn

Change this scenario so the player is given three gold ingots if a gold block is broken. Place an image of your final code in the green box.



Detect Code

A detect command has the ability to check for a block in a location within your world.

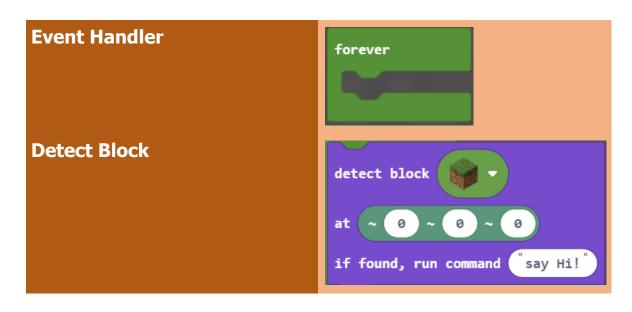
<u>Using MakeCode for Game Design - Minecraft Education Edition</u>



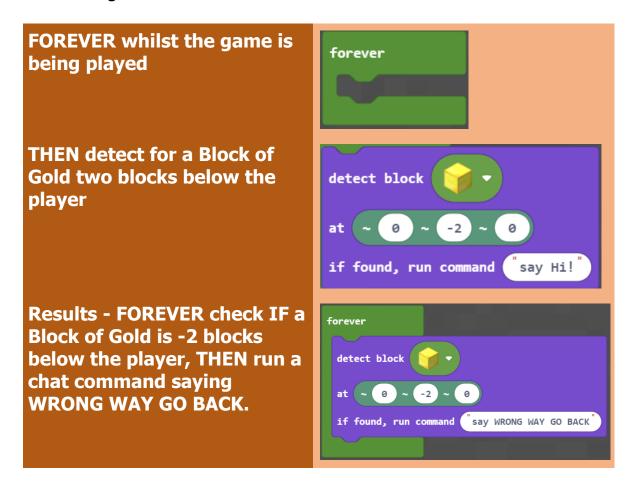
Example

Let's imagine how we might use this in a game. Our game might have two pathways. If the player takes the wrong path, this will be informed via the chat.

To do this, we will need the following:



For this example, we will code our game to detect a Block of Gold two blocks below the player. If this condition is met, the player will receive the message "WRONG WAY GO BACK".



Your Turn

Using Blocks of Emeralds, can you add to your game a message that will appear when your player finds the correct door?

FOREVER whilst the game is being played

THEN detect for a Block of Emerald -2 blocks below the player.

Results -

Effect Code

An effect command can apply one of the 29 possible effects possible in Minecraft Education.

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These include:

Icon	Status Effect	Minecraft ID Name	Description
	Absorption	absorption	Adds yellow Absorption health hearts
3	Bad Omen	bad_omen	Causes a group of hostile mobs to attack when a player with Bad Omen enters a village
	Blindness	blindness	Creates a thick black fog
(0)	Conduit Power	conduit_power	Improves visibility and mining speed underwater, and adds ability to breathe underwater
	Fatal Poison	fatal_poison	Does damage every 1.25 seconds (can kill player)

	Fire Resistance	fire_resistance	Immunity to fire, lava, and direct hits from fire balls
	<u>Haste</u>	haste	Speeds up how fast you break blocks
37	Health Boost	health_boost	Adds additional hearts to your base health
	Hero of the Village	village_hero	Receive discounted trades from villagers after completing a Raid
	<u>Hunger</u>	hunger	Depletes food meter
	Instant Damage	instant_damage	Damages instantly
.,	Instant Health	instant_health	Heals instantly
	Invisibility	invisibility	Invisible to others
*	Jump Boost	jump_boost	Jump higher
_	Levitation	levitation	Player will involuntarily float upwards into the sky and continue to rise
P	Mining Fatigue	mining_fatigue	Slows down how fast you break blocks
[خ	<u>Nausea</u>	nausea	Wobbles and warps what you see in the game
	Night Vision	night_vision	Increases brightness level to 15 (see better in dark)
	Poison	poison	Does damage every 1.25 seconds (can not kill player)
	Regeneration	regeneration	Restores half heart every 2.5 seconds
a	Resistance	resistance	Reduces all damage

	Saturation	saturation	Replenishes food meter
	Slow Falling	slow_falling	Slows down how fast you fall and eliminates fall damage
9	Slowness	slowness	Decreases speed
	Speed	speed	Increases speed
*	Strength	strength	Increases attack damage (melee attacks)
00	Water Breathing	water_breathing	Breathe underwater without using up oxygen bar
ý:	<u>Weakness</u>	weakness	Decreases attack damage (melee attacks)
	Wither	wither	Does damage every 2 seconds (can kill player)

Example

Let's imagine our player needs to use an effect to get past the next part of our game. The player needs to make their way through a dark maze. Without the Night Vision effect, it will be very difficult to achieve. To reach the maze, they must first climb a ladder.

To do this, we will need the following:



For this example, we will code our game to apply Night Vision for 10 seconds at an amplifier of 1 when the player climbs the ladder.



Your Turn

Change the environment of the path to the end so it requires a different effect triggered by a different event handler. For example, you can remove the ladder down, and the player will only receive the effect of slow falling when they break a particular block.

IF/ON -	
THEN -	
Results -	