Minecraft
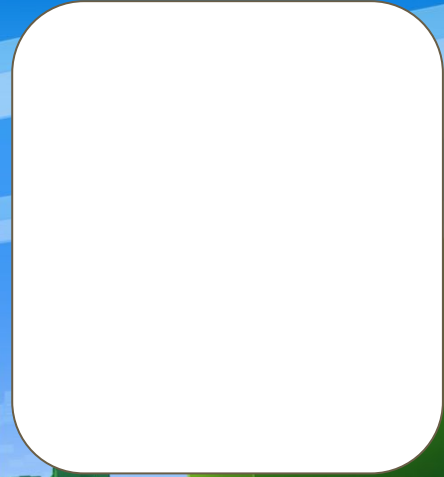
EDUCATION EDITION
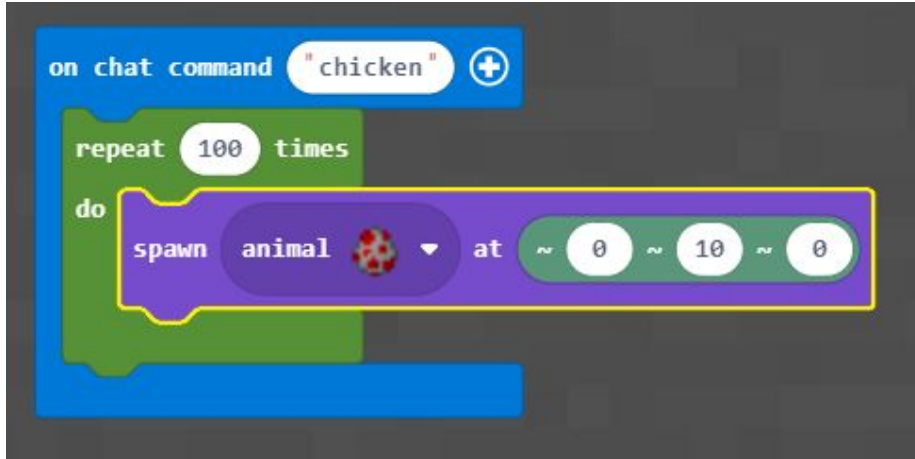
Yr 5 Coding Journal

Studious Student :)

CODING CHALLENGES

Spawn animals

🔊 Audio

🎬 Video

What blocks did you use? Why?
*I used a **repeat** so they will have more than one chicken.*
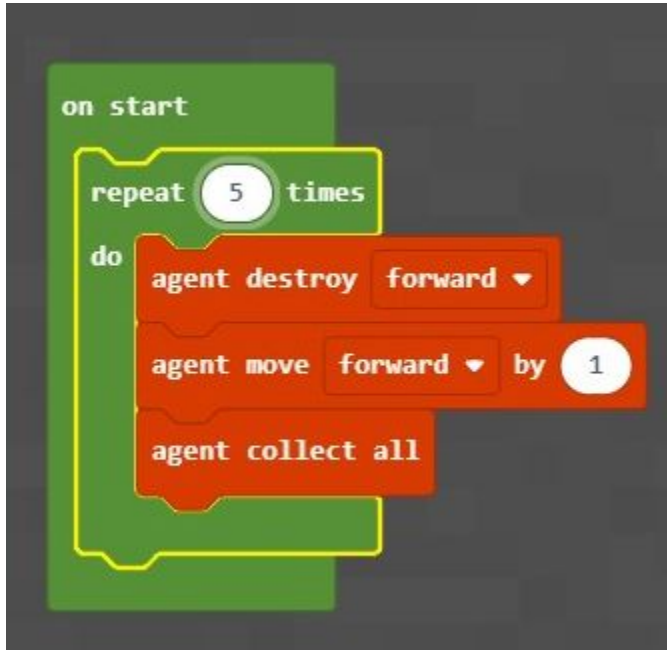*I used the spawn block so i could pick my animals*

How does it work?
You will have to press c then you will have to do that and go in to the chat and right/chicken(any animals you like) then the chicken will come down

What was the biggest challenge?
*Learning to **execute** my code the chicken come down in the chat.*

Repeat

🔊 Audio

🎬 Video

What blocks did you use? Why?

*I used **repeat** because it will have to do it over and over.*

How does it work?
*It will **repeat the movement commands** 5 times, to complete the task.   This means I don't have to code it 5 times, just once.*

What was the biggest challenge?
Sequencing the commands and the correct order

For while

Explanation of my code

What blocks did you use? Why?
*I used **While do** because you can make it do something while something is true.*
*For this one it is **While a block is in front**, and the way is blocked.*
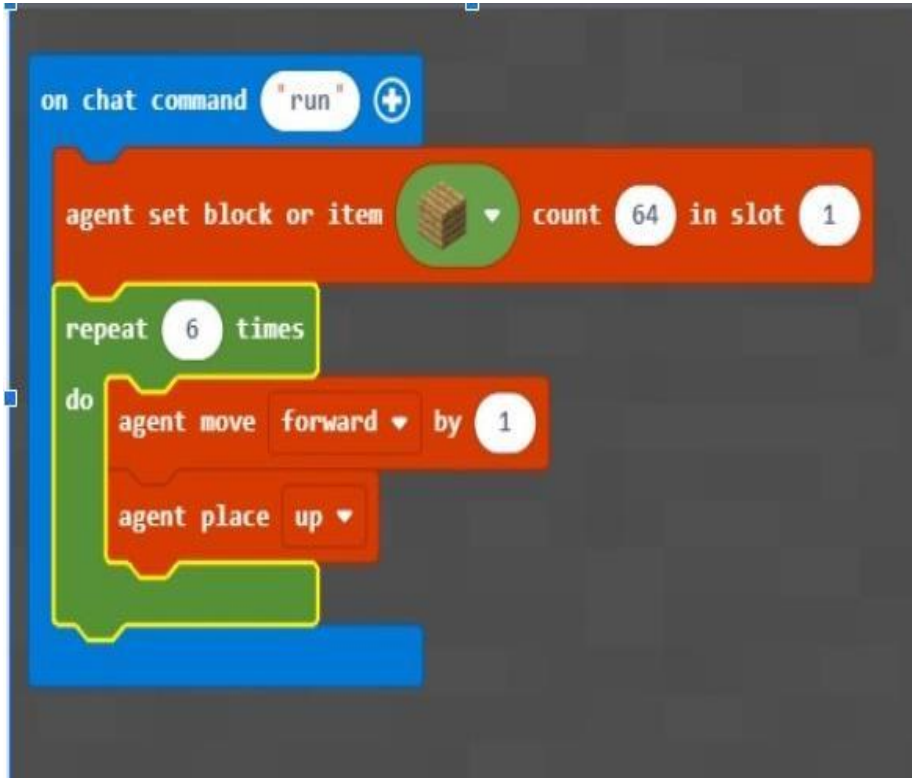
How does it work?
*So when its destroying it will **detect** for the block to destroy it. It will keep going **automatically** until it has cleared a path through.*

What was the biggest challenge?
For the code to be correct and the last block above to be cleared! It got stuck because the commands were in the wrong sequence.

loops

What blocks did you use? Why?
*I used the **loop** block so it can carry on repeating for a set number of times, until the job is done:)*

How does it work?
It does the work following the number of repeats I put in the values.

What was the biggest challenge?
For the agent to carry the right resources.

My solution - my nest loop

My Nested Loops

```
on start

agent set block or item [ ] count 64 in slot 1

repeat 3 times
do
    repeat 3 times
    do
        agent place down
        agent move forward by 1
    agent turn right
```

Explanation of my code

What blocks did you use? Why?
*I used **repeat** and repeat two patterns so it could build a 4 sided square wall .*
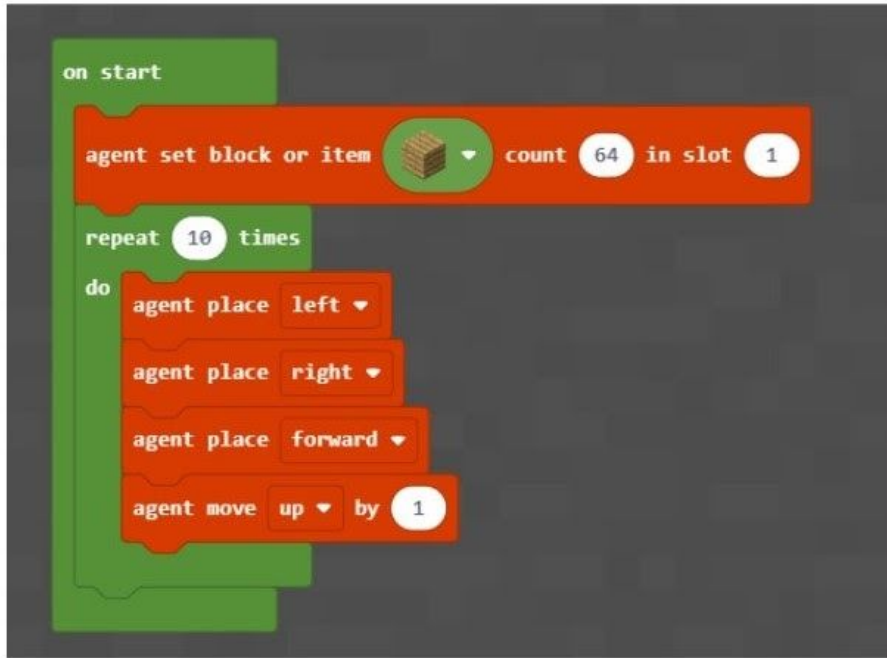
How does it work?
Once complete it will be a square and each side will have three bamboo

What was the biggest challenge?
This image shows a bug because I only coded 3 repeats the first time.   I corrected this to get a 4 sided shape.

My solution - agent place

Explanation of my code

What blocks did you use? Why?

I used agent place so it could place things around.

How does it work?
If you choose you choose for agent to place
Left it would place the left side(depends what you choose)

What was the biggest challenge?
This was the first part to build the tower, then the agent needed to come down again to place the ladder!

My solution -

Explanation of my code

What blocks did you use? Why?
I used

How does it work?

What was the biggest challenge?