**** **Maze Solving**

This maze was the one we were to solve.

I tried to solve it with a pen – by……………….

(tell me something about how you went about solving it)

If I was to give instructions on how to solve the maze I could make it into squares and then give commands like the following.

Forward 1 (FD1) Right – FD1 – Left

**Here is a list of the commands to start to solve the maze.**

FD1 RT FD1 LT FD1 LT FD2 RT FD2 RT FD1 LT FD2 RT FD1

Random Mouse Algorithm

I shook the Dice to see if it was 123 where I went right or 456 where I went left – every time I had to make a decision I used the dice. If it was a dead end I turned 180degrees, if there was only one way to go I went that way.

**(Tell me how far you got through the maze) (Is this a good algorithm for solving a maze?)**

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When I did mine I found out that it doubled back several times – This algorithm should eventually solve the maze but it may take a very long time. – many monkeys / Shakespeare idea.

Wall Follower Algorithm

I investigated and found out that the wall follower algorithm could solve most mazes. This is a really simple algorithm……. (write something about the algorithm and how it works here)

(are there any downsides to this algorithm? )

Did you find any other algorithms (maybe you looked at the dead end filler) if so – write something here about them.

Finally

Think about how to create a maze – what are the essential features of a maze – are there any common features?

How might you write an algorithm to create a maze?

(write any findings here)

( Create your own maze on paper or using the drawing tools in Word. )