



# MATHEMATICS LESSON PLAN

## Working Mathematically

### MATHEMATICS

- Apply strategies for numerical calculation and recognise patterns
- Identify, visualise and quantify measures and the attributes of shapes and explore geometric relationships
- Represent and interpret data and use probability

### CREATIVE AND CRITICAL THINKING

- Generate and evaluate knowledge
- Developing reasoning and logical thought
- Exploring and comparing properties, interpreting data, and modeling situations

**IN THIS LESSON** students will use Minecraft to solve and construct concrete mathematical operations.



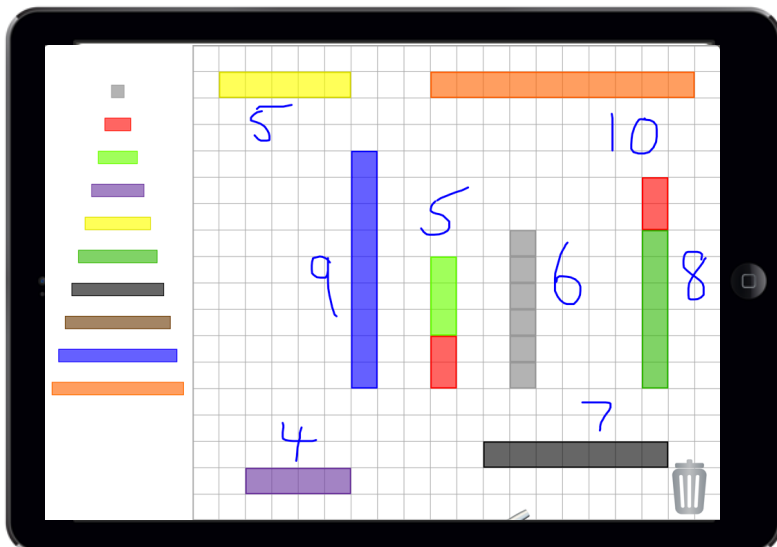
### APPS USED

Minecraft: Pocket Edition

Number Rods

## Introduce the Topic

First we explore the way that we are able to represent numbers by using



Cuisenaire Blocks and then transfer this to the iPad using the **Number Rods** app. Then demonstrate how blocks in Minecraft can be used to do the same thing. Have students create a variety of numbers in Minecraft to assess their understanding.



## Build Understanding

Demonstrate how additions can be modelled in Minecraft by counting the



number of blocks in two columns of bricks. Next, do a walkthrough of the Maths Challenge in Minecraft modelling for students how they complete the questions and record their answers. Then allow students to complete the challenge independently.

## Apply Learning

This activity can be extended in a number of ways. Blocks can be arranged to represent the place value of numbers. Blocks can also be



used to represent multiplication as repeated addition. Subtraction equations can also be shown. Extend students understanding by having them create their own Maths Challenges for other students.