

Young Achievers Science & Mathematics School      Date: \_\_\_\_\_

Name: \_\_\_\_\_ Grade: \_\_\_\_\_

### **How much space does each of these blocks take up?**

Aim: To use grid paper to find out how much space each block takes up.

Materials:

Squared paper (one block on the paper equals one unit)  
Blocks  
Ruler  
Pencil  
Scissors  
Tape

Task:

1. Work in pairs.
2. Draw a box pattern on the squared paper using solid and dashed lines so that the box will be the same size as the block.
3. Remember to include flaps for the box in your design
4. Cut out the cube on the solid lines.
5. Fold along the dashed lines.
6. Tape box together.
7. Use drawing to find out how much space the block takes up.

Questions:

1. Is there another way to find how much space the block takes up?  
If so, how would you do it?
2. What is the formula for finding how much space a cuboid shape takes up?  
Can this formula be used to find the amount of space the rocks (used in the earlier activity) take up? Give reasons for your answer.
3. What term can we use to describe the amount of space an object takes up?  
Is this a property of an object?