

# Grade 8 ENGLISH PRIME Math & Science Learning Opportunities


Week of April 27<sup>th</sup>

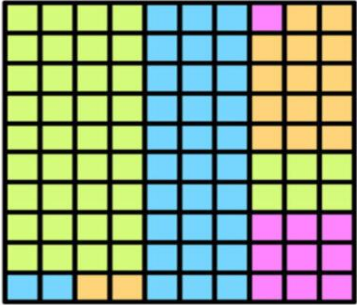
## MATH ENGLISH PRIME - WEEK OF APRIL 27<sup>TH</sup>

### MANGAHIGH CHALLENGES

I will be changing our challenges this week to focus on geometry. Please let me know if you need your mangahigh password and I will send to you. Don't forget you can message me on mangahigh if you have any questions.

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 If the diagram below represents 250, find the value of each color.



### MATH AT WORK – MATH MEETS CULINARY ARTS | FULL EPISODE

<https://www.youtube.com/watch?v=yD1i3RRV2zg>

  **Hungry For a Challenge?**  
Use your math skills to find the value of each icon and the '?'

$17 = \text{blender} + \text{donut} + \text{cake}$

$4 = 5 - \text{cake}$

$\text{bread} = \text{blender}$

$\text{cookie} \times 3 = 23 + \text{cake}$

$\text{cake} = \text{bread} - \text{cookie}$

$\text{donut} + \text{donut} + \text{bread} = ?$

You can download more free math puzzles at [www.mashupmath.com](http://www.mashupmath.com)

# SCIENCE

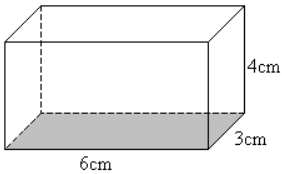
## HOW TO MEASURE THE VOLUME OF AN OBJECT

1. WATCH THE FOLLOWING VIDEO : <https://www.youtube.com/watch?v=rOs3acfnLww>

2. COMPLETE THE EXERCISE :

To measure the volume of a **rectangular prism**: MULTIPLICATION!

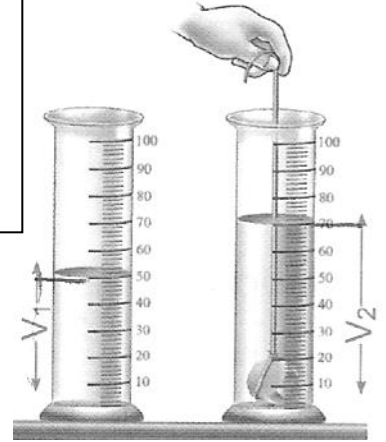
$$L \times l \times H = V$$



$$3\text{cm} \times 6\text{cm} \times 4\text{cm} =$$

To measure the volume of an **irregular object** :  
DISPLACEMENT!

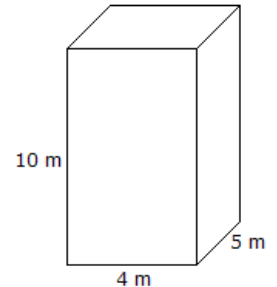
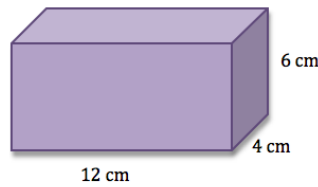
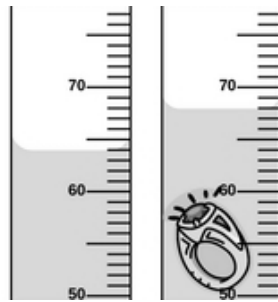
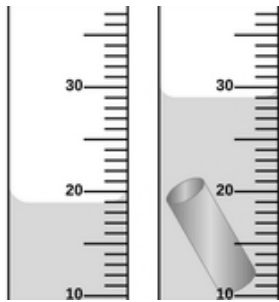
Submerge the object in a known measurement of water and measure the amount of water that is displaced.



$$70\text{ml} - 50\text{ml} = 20\text{ml}$$

**PROCEDURE:**

1. Determine the volume (ml (for liquids) or  $\text{cm}^3$  (for solids)) of the objects in the pictures below:



a) \_\_\_ ml - \_\_\_ ml = \_\_\_ ml

c) \_\_\_ cm x \_\_\_ cm x \_\_\_ cm = \_\_\_  $\text{cm}^3$

b) \_\_\_ ml - \_\_\_ ml = \_\_\_ ml

d) \_\_\_\_\_ = \_\_\_\_\_  $\text{m}^3$

# SCIENCE

2. Choose FOUR irregular objects around your house and determine their volume. Show your work and draw the object.

**MATERIALS :** measuring cup, water, 4 objects.



<p><b>Object :</b> _____</p> <p><b>Volume (ml) :</b> _____</p> <p><b>Drawing :</b></p>          	<p><b>Object :</b> _____</p> <p><b>Volume (ml) :</b> _____</p> <p><b>Drawing :</b></p>          
<p><b>Object :</b> _____</p> <p><b>Volume (ml) :</b> _____</p> <p><b>Drawing :</b></p>          	<p><b>Object :</b> _____</p> <p><b>Volume (ml) :</b> _____</p> <p><b>Drawing :</b></p>          


## MATH-SCIENCE LINK

### 😊 JUST FOR FUN 😊

In Math and Science we often rely on good logical & critical thinking as well as problem solving skills. If you are able to this week, try a “Water Flow” puzzle. There are dozens of free versions available as apps and online. Here are just a few examples available for Android users:



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App Holdings  
Contains ads • In-app purchases



**Plumber: Water Pipe Puzzle**  
Gpon  
Contains ads • In-app purchases



**Flow Fountain 3D Puzzle**  
Frasnapp  
Contains ads • In-app purchases



**Water Pipes**  
Mobiloids  
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**Flow Water Fountain 3D Puzzle**  
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