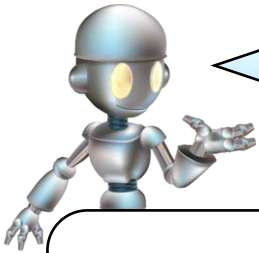


**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_



Measure craters caused by dropping objects of different weights into a tray of flour. Draw or photograph the craters, then measure and describe them. Describe what you noticed and correct the statements below.

Object dropped:  
Depth of crater:  
Diameter of crater:

Object dropped:  
Depth of crater:  
Diameter of crater:

Object dropped:  
Depth of crater:  
Diameter of crater:

Describe the differences between the crater made by a light object and one made by a heavy object:

Describe how gravity affects the objects dropped into the tray of flour:

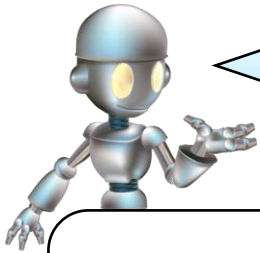
Circle the correct words:

The light objects make **deep** / **shallow** craters.

The heavy objects make **deep** / **shallow** craters.

Large or wide objects make craters with **large** / **small** diameters.

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_



Measure craters caused by dropping objects of different weights into a tray of flour. Draw or photograph the craters, then measure and describe them. Describe what you noticed, then complete the statements below.

Object dropped: \_\_\_\_\_

Depth of crater: \_\_\_\_\_

Diameter of crater: \_\_\_\_\_

Object dropped: \_\_\_\_\_

Depth of crater: \_\_\_\_\_

Diameter of crater: \_\_\_\_\_

Object dropped: \_\_\_\_\_

Depth of crater: \_\_\_\_\_

Diameter of crater: \_\_\_\_\_

Describe the differences between the crater made by a light object and one made by a heavy object:

Try dropping a light object and a heavy object that are the same size (or very similar size). What do you notice?

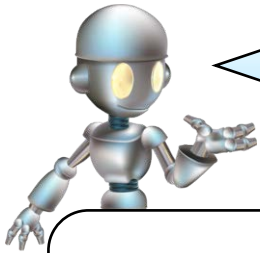
Add words to these statements to show what you have learned:

The light objects make \_\_\_\_\_ craters.

The heavy objects make \_\_\_\_\_ craters.

Large or wide objects make craters with \_\_\_\_\_ diameters.

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_



Measure craters caused by dropping objects of different weights into a tray of flour. Draw or photograph the craters, then measure and describe them. Describe what you noticed and what you have learned.

Object dropped:  
Depth of crater:  
Diameter of crater:

Object dropped:  
Depth of crater:  
Diameter of crater:

Object dropped:  
Depth of crater:  
Diameter of crater:

Describe the differences between the crater made by a light object and one made by a heavy object:

Try dropping a light object and a heavy object that are the same size (or very similar size). What do you notice?

Write a conclusion to show what you have learned about the effect of gravity on objects of different weights.

Use books, CD ROMs and the internet to find out about

**Galileo Galilei**  
and  
**Isaac Newton**

The work of these two scientists changed our understanding of forces, especially gravity!

When were they born? Where? How long did they live for?

What ideas did they develop about gravity and other forces?

What experiments did they do to test and support their ideas?

Are there any links or similarities between the work of these two scientists?

Did they develop any other scientific ideas or make new discoveries?

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