Name: Date:

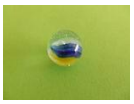
PROPERTIES OF MATTER

DENSITY

Activity 1

Let's test density.

A) You need:

- A wide measuring jug 
- Two identical things but made of materials which are as different as possible (e.g. two small balls) 
- Water 
- Scales 

B) Instructions and diagram:

- Weigh each object and record the result.

- Object "A" is a _____ and it weighs _____ grams, so the MASS is _____ grams.
- Object "B" is a _____ and it weighs _____ grams, so the MASS is _____ grams.

- Put water in the measuring jug and record the amount of water.

  Remember:

  - The smaller the object the more precise the measuring jug.
  - The water has to cover the object.

I/We put _____ cubic centimetres (cm^3) into the measuring jug.

Name: Date:

- Put object "A" into the measuring jug and record the amount of water that has gone up.

Object "A" has displaced _____ cubic centimetres (cm^3) up the jug. This is called VOLUME.

- Prepare the measuring jug again using the same amount of water.
- Put object "B" in the measuring jug and record the amount of water that has gone up.

Object "B" has displaced _____ cubic centimetres (cm^3) up the jug. This is called VOLUME.

Diagram

C) Now you can obtain the density of objects "A" and "B".

	DENSITY	=	$\frac{\text{MASS}}{\text{VOLUME}}$		
OBJECT "A"	DENSITY	=	_____	=	_____
OBJECT "B"	DENSITY	=	_____	=	_____

Name: Date:

D) Now imagine and draw the matter/molecules inside objects "A" and "B" used before.

OBJECT "A"	OBJECT "B"

E) DEFINITION: _____

_____

_____

Activity 1

D) - The matter in object *"A"/"B"* is denser than the matter in object *"A"/"B"*.