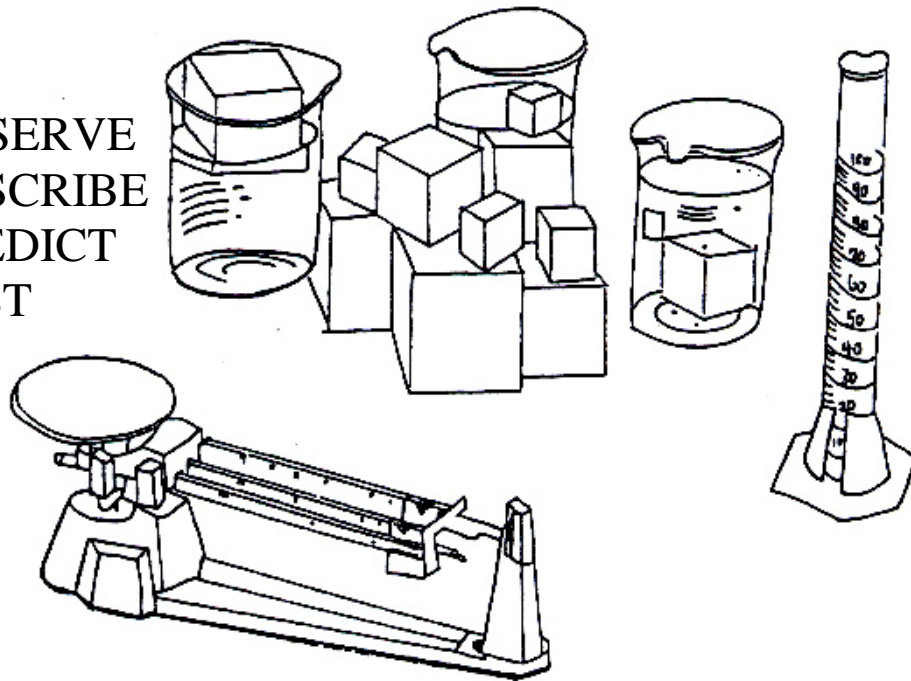


STUDENT RESPONSE FORM

CUBES & LIQUIDS

APPLYING SIX CAPABILITIES ESSENTIAL TO SUCCESS
IN SECONDARY SCHOOL SCIENCE, TECHNOLOGY & MATHEMATICS

OBSERVE
DESCRIBE
PREDICT
TEST



Name: _____

Date: _____

Prediction 1: Check one. The cube will:

- float
- sink
- not enough information

Reasons for your answer (use full sentences):

Observation 1 (use full sentences):

Record the details of our experiment.

Describe fully what the experimenter did and what happened as a result.

Prediction 2: Check one. The cube will:

- float
- sink
- not enough information

Reasons for your answer (use full sentences):

Observation 2 (use full sentences):

Record the details of our experiment.

Describe fully what the experimenter did and what happened as a result.

Prediction 3: Check one. The cube will:

- float
- sink
- not enough information

Reasons for your answer (use full sentences):

Observation 3 (use full sentences):

Record the details of our experiment.

Describe fully what the experimenter did and what happened as a result.

Prediction 4: Check one. The cube will:

- float
- sink
- not enough information

Reasons for your answer (use full sentences):

Observation 4 (use full sentences):

Record the details of our experiment.

Describe fully what the experimenter did and what happened as a result.

Thought Experiment 1:

Consider 2 possibilities. The mystery cube is either

- lighter than the other two cubes, or
- heavier than the other two cubes.

Considering both these possibilities, predict whether the mystery cube will float or sink in these beakers or whether there is not enough information. Do this for each of the cases.

Thought Experiment 2: (use full sentences)

What must the properties of the mystery liquid be for the cube to float in that liquid? Do not use the word 'density' in your answer.

Summary Question: Explain how your ideas about floating and sinking may have changed now that you have experienced these experiments.

Comments: Please share impressions and thoughts about your experience of this activity