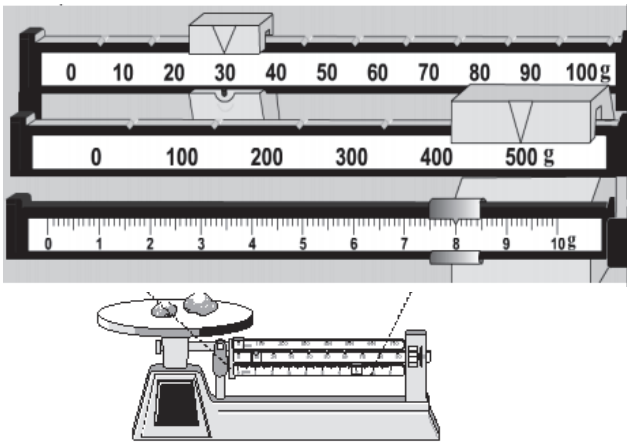
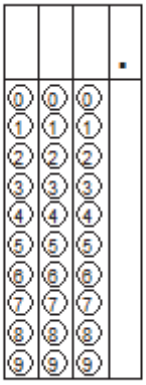
Guided Practice power up STAAR to science **Readiness Standard 5.5.A**

Name_____ Date_____

1. The picture shows two unknown objects on a triple beam balance.



According to the picture, what is the mass of the two unknown objects?
Record your answer and fill in the bubbles on the grid below. Be sure to use the correct place value.



2. All matter can be classified by their physical properties. Which substance can be classified as being soluble in water?

A. Sand
B. Pepper
C. Iron filings
D. Salt

3. Students perform an experiment and record their observations. The results are shown in the chart below. (5.2.G)

Column A	Column B	Column C
Cube	Oil	Water vapor
Iron nail	Vinegar	Oxygen
Golf ball	Water	Carbon dioxide

What are the students most likely observing?

A. Sinking and floating of objects
B. Objects that are not magnetic
C. Solids, liquids, and gases
D. Objects with the greatest density

4. Which of these is the best insulator of electricity?

A. Copper penny
B. Plastic tubing
C. Aluminum foil
D. Metal washer

5. The chart below shows objects that conduct heat and objects that insulate heat. Which answer choice best completes the chart?

Conductors	Insulators
Metal spoon	Styrofoam
Copper wire	Wooden spoon
?	Cotton

A. Glass block
B. Gold ring
C. Plastic spoon
D. None of the above

Name_____ Date_____

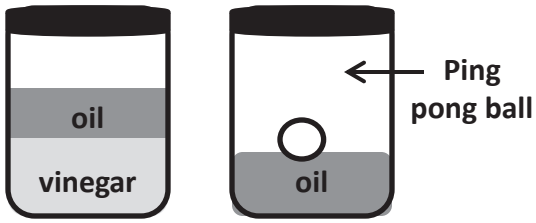
6. A student reads the directions on a jar of all natural peanut butter. (5.2.D)

Ingredients: roasted peanuts, salt
Directions: Oil separation on top of peanut butter is natural. Just stir and refrigerate.

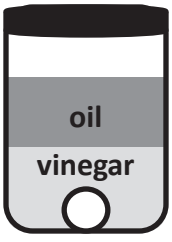
Why do the directions suggest stirring the peanut butter?

A. Oil from the peanuts separate from the mixture because it is less dense.
B. Oil from the peanuts separate from the mixture because it is more dense.
C. Salt from the peanuts cause the mixture to separate.
D. Water from the peanuts cause the mixture to separate.

7. The diagram below shows two identical containers and their ingredients.

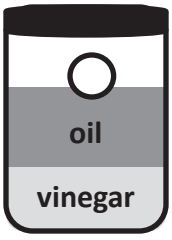


Which diagram shows what would happen if the two containers are combined?

A.


B.


C.


D.


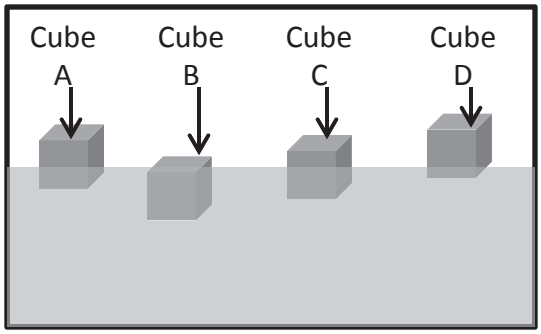
8. Students are finding the volume of a rock. The steps taken to find the volume of the rock are shown below. (5.2.D)

1. Pour 90 ml of water in a graduated cylinder.
2. Place the rock in the water.
3. Record that the water level rises to 99 ml.
4. ?

Which statement best explains step 4?

A. Record the volume of the rock as 99 ml.
B. Record the volume of the rock as 90 ml.
C. Subtract 90 ml from 99 ml and record the difference of the two numbers as the volume of the rock.
D. Subtract 99 ml from 90 ml and record the difference of the two numbers as the volume of the rock.

9. The diagram below shows what happens when four different cubes are placed in a container of water.



Which cube has the least buoyancy in water?

A. Cube A
B. Cube B
C. Cube C
D. Cube D