Matter Name: _____

Multiple Choice

Read the questions and circle the best choice.

Example

The sky is _____:

a. Green
b. Brown
c. Blue

1. Which item does **not** dissolve in water?

a. Sugar
b. Pebbles
c. Salt
d. Powdered lemonade

2. When a small amount of milk is added to a beaker of water, the milk _____.

a. Disappears in the water, leaving the water completely clear
b. Mixes with the water, making the water cloudy
c. Sinks to the bottom of the beaker, sitting under the water
d. Floats to the top of the beaker, sitting on top of the water

3. Think back to our experiment when we mixed white sugar with water. Based on this, what can we predict will happen when we mix artificial sugar with water? The artificial sugar will _____.

a. Dissolve in the water

b. Float on top of the water

c. Sink to the bottom of the water

d. Turn a different color

4. We measure *how much* water we have by its _____

a) Mass

b) Temperature

c) Volume

5. We measure *how many grams* a pebble is by its _____.

a) Mass

b) Temperature

c) Volume

6. We measure *how hot* something is by its _____.

a) Mass

b) Temperature

c) Volume

7. Hot water dissolves substances faster than cold water.

True or False (circle one).

Fill-in-the-blank.

There are three words and three blank spaces. Use the best word to fill in the blank.

Solid, liquid, gas.

8. Ice is a _____.

9. Air is a _____.

10. Water is a _____.

Write!

11. Other than the three examples given above (ice, air, water), give an example of a **liquid**.

_____

12. Other than the three examples given above (ice, air, water), give an example of a **solid**.

_____

13. Do you think hot chocolate mix will dissolve faster in **hot water** or in **ice water**?

_____

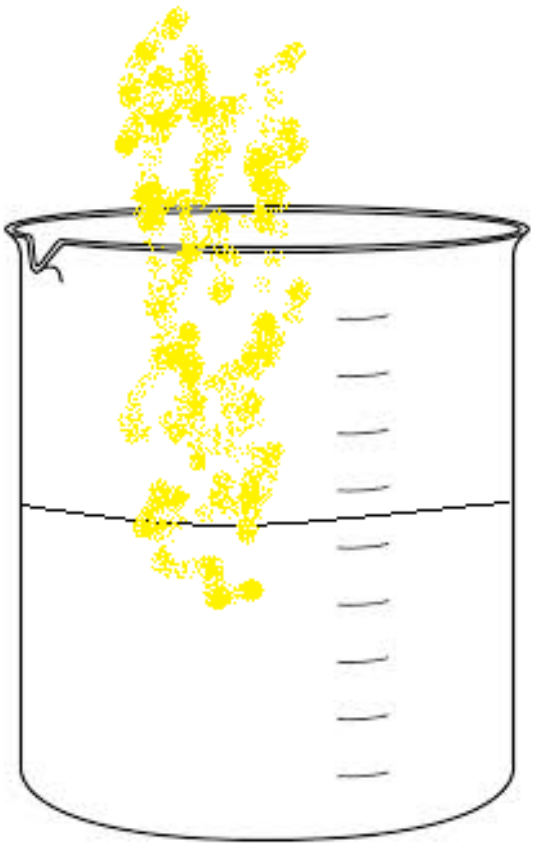
14. Place each item in the correct column:

baking soda, sand, sugar, salt, oil, powdered drink mix, pebbles

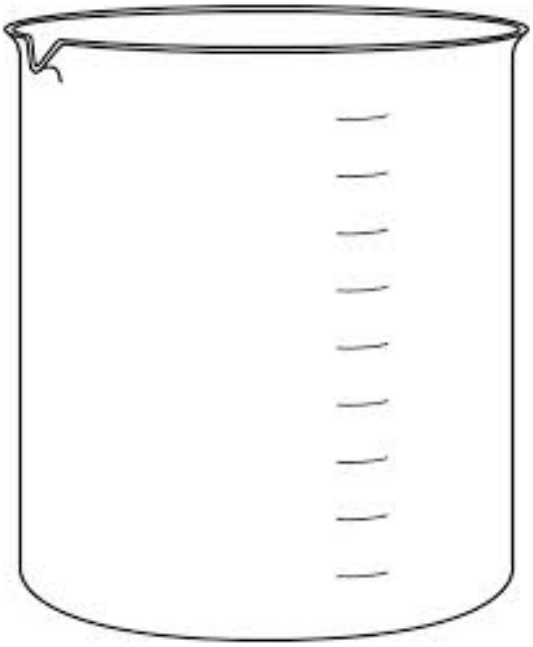
Will dissolve in water	Will NOT dissolve in water

Draw!

15. Picture 1 shows lemonade mix being poured into a beaker of water. Use Picture 2 to draw a picture of what happens when lemonade mix is dissolved into water.

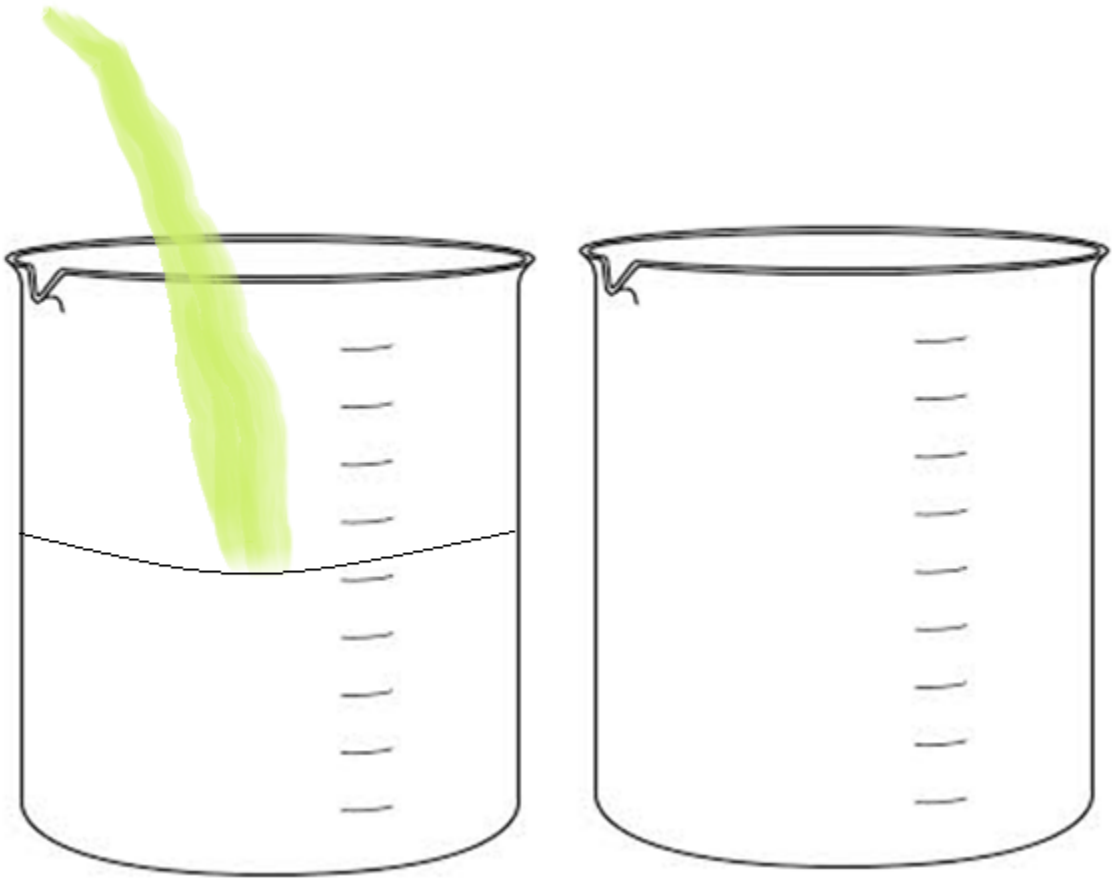


Picture 1



Picture 2

16. Picture 1 shows oil being poured into a beaker of water. Use Picture 2 to draw a picture of what happens when oil is mixed into water.



Picture 1

Picture 2

Part Two:

17. (Teacher instructions – cover this direction with paper while the student is answering)
The students should come up to the teacher individually for this question (do not administer this with the other test questions). Present the student with a beaker of water. Ask the student how much water is in the beaker. Have them write their answer in the blank space provided. Prompt the student if they seem confused or if they forget to write the unit of measure. After they are done, remind each student not to discuss this assessment with anyone else until it has been completed by everyone.

How much water is in the beaker?

_____

Answer Key:

Example: c.

1. b.

2. b.

3. a.

4. c.

5. a.

6. b.

7. True

8. Solid

9. Gas

10. Liquid

11. Correct response example: milk

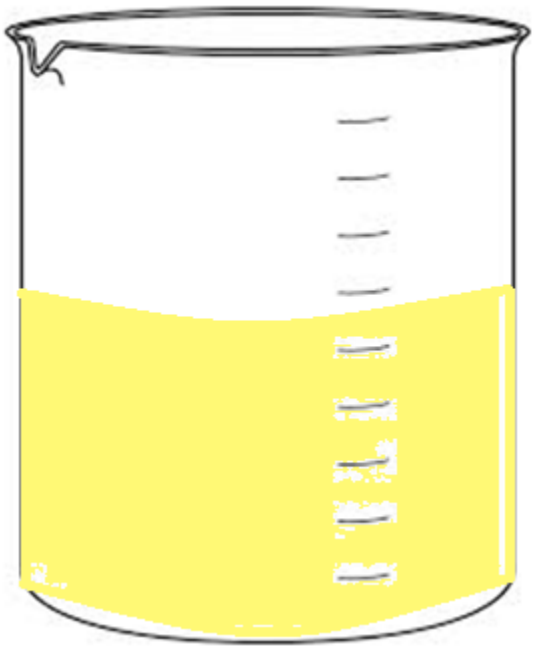
12. Correct response example: sugar

13. Hot water

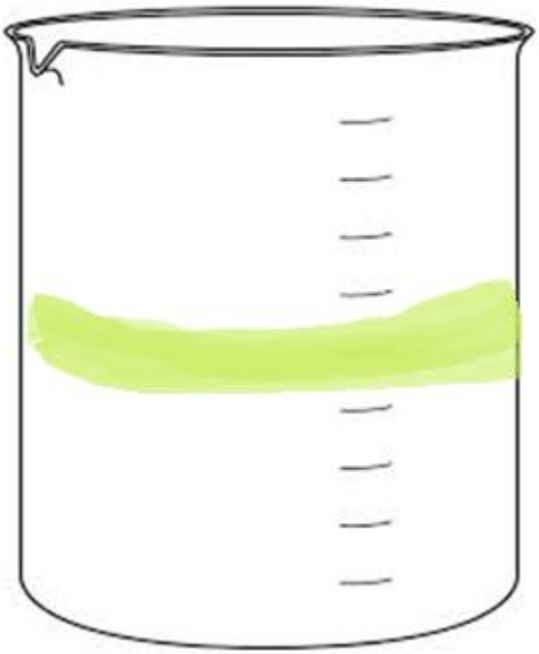
14.

Will dissolve in water	Will NOT dissolve in water
baking soda sugar salt powdered drink mix	sand oil pebbles

15.



16.



17. (The beaker will hold the same amount for each student) – 50 mL

Rubric: Question #15

Criteria			
The student draws a picture that depicts the granules of sugar to be dissolved.	The picture shows that there is no sugar left in the beaker (it has dissolved).	The picture shows that some of the sugar has dissolved, but some still remains.	The picture shows that the sugar has not dissolved; the amount of sugar in the beaker has not changed.

Rubric: Question #16

Criteria			
The student draws a picture that depicts the oil to be separate from and sitting on top of the water.	The picture shows that all of the oil in the beaker has separated from the water and is sitting on top of the water.	The picture shows that the oil has separated but does not show the oil sitting on top of the water.	The picture depicts something other than the oil separating from the water.

Rubric: Part Two - #17

			
Measurement	The student correctly reads the amount of water in the beaker, give or take one milliliter.	The student comes within 5 milliliter of the correct amount.	The student is 5 or more milliliter off of the correct amount.
Unit of measure	The student includes the correct unit of measure without a prompt.	The student includes an incorrect unit of measure, but corrects it when prompted. OR The student does not include a unit of measure but gives the correct one when prompted.	The student does not include a unit of measure, even when prompted. OR The student gives the incorrect unit of measure even when prompted.

 = 2 points  =1 point  =0 points