Name:_____ Date:_____ Class: _____

SCIENCE 4th GRADE
PROPERTIES OF MATTER WORKSHOP

IM1. *Relates properties of matter with its physical and chemical changes to process information of scale, proportion and quantity that helps to collect evidence.*

1. Classify the following ingredients in this recipe according to their state (***solid***, ***liquid*** *or* ***gas***).

ICE CREAM THAT MATTERS

Ingredients and supplies for 1 or 2 servings

- 1 cup cream or 236ml _____
- 1 tablespoon sugar or 21g _____
- 1 teaspoon vanilla or 5ml _____
- 4 cups ice or 520g _____
- 4 tablespoons kosher salt 84g _____

- 1 pint-sized zipper top plastic bag
- 1 quart-sized zipper top bag
- A towel or gloves

2. According to what you've learned in class, identify if we are measuring ***volume*** *or* ***mass***. HINT: Check the measurement units.

- 1 cup cream or 236ml _____
- 1 tablespoon sugar or 21g _____
- 1 teaspoon vanilla or 5ml _____
- 4 cups ice or 520g _____
- 4 tablespoons kosher salt 84g _____

***C2**. Describes characteristics, properties, variables and changes of matter to develop a model that represents specific topics of the conceptual framework.*

3. Honey is in _____ state. Water is in_____ state. Explain how you think the particles move or behave in each of this substance. Is there any difference?
Hint: Honey is thick, you take a while to pour it out of its container while water is runnier, it's very easy to pour out of its container.

4. In which state of matter would you classify GELATINE and why?

***CT1**. Selects information/observations of the structure and/or changes of matter to make inferences based on evidence.*

5. Neimar, Messi and Neuer are making cupcakes to celebrate their participation in the Champion´s League with their fans.

In the first drawing you can see the batter that contains several ingredients like flour, sugar, eggs and milk.
In the second drawing you can see the result AFTER they have baked the batter for 35min.

Picture 1. cupcake batter

Picture 2. Cupcakes baked and ready to be decorated.

Use your knowledge in science to explain to the most famous football players in the world:
What happens to the particles of matter in both pictures.

Dear Neimar, Messi and Neuer,

5a. In picture 1. you can see that the matter is… so the particles must be…

5b. In picture 2. Matter is now in a … state which means that the particles must be…

Just to make it clearer! Draw a diagram in YOUR SCENCE NOTEBOOK that shows how particles should look like in both pictures take a picture and send it to your teacher:

Picture 1. PARTICLES in cupcake batter

Picture 2. PARTICLES of cupcakes ready to be decorated.