

Physical vs. Chemical Changes and Particle Movement **Review**

1. Fill in the table below:

State	Solid	Liquid	Gas
Type of Particle Movement			
Spaces Between Particles			

2. Define, in your own words, physical change:

3. Define, in your own words, chemical change:

4. What are the five clues you look at to decide if a change is physical or chemical?

- a.
- b.
- c.
- d.
- e.

5. State whether each change is physical or chemical (label with P or C). Give one reason for your answer:

a. *Sugar is dissolved into tea* _____

Reason: _____

b. *Butter is heated in a frying pan until it turns brown* _____

Reason: _____

c. *A firecracker explodes* _____

Reason: _____

d. *Frost forms on windows* _____

Reason: _____

e. *Concrete becomes hard after it is poured* _____

Reason: _____

6. Give one example of a chemical change that occurs in your **living** environment: _____

7. Give one example of a chemical change that occurs in the **non-living** environment: _____

8. Think about how particles move in different states of matter. Explain why it is easier to move your hand through air than through water.

9. Fill in the following terms for each change of state in matter below:

a. Changing from a solid to a liquid is called _____

b. Changing from a liquid to a gas is called _____

c. Changing from a liquid to a solid is called _____

d. Changing from a gas to a solid is called _____

e. Changing from a solid to a gas is called _____

f. Changing from a gas to a liquid is called _____