

## Matter Worksheet

**Write questions in your notebook, then answer.**

1. Define matter in a complete sentence.
2. List the three common states (phases) of matter:
3. Which state of matter has:
  - a. no definite shape, nor definite volume
  - b. no definite shape, but definite volume
  - c. definite shape and definite volume
4. How do you change a solid into a liquid? Give an example.
5. How do you change a gas into a liquid? Give an example.
6. Use your answers from the two problems above to explain why phase changes are "reversible".
7. List three physical properties of matter.
8. When matter undergoes a physical change, has its physical properties changed? Give an example.
9. What do we mean when we speak of a substance's "composition"? Use your prior knowledge of atoms, molecules, elements, compounds and mixtures.
10. When matter undergoes a physical change, does the composition of the matter change? Give an example.
11. List two chemical properties of matter.
12. After a chemical change has the physical and chemical properties of a substance changed? Give an example.
13. Give two examples of common items that use chemical change.

**After recording in your notebook, tell whether the following are chemical or physical changes:**

1. mixing salt and pepper
2. freezing water
3. cutting a marshmallow
4. toasting a marshmallow
5. burning wood
6. adding chocolate syrup to milk
7. iron rusting
8. melting sugar
9. breaking glass
10. boiling water
11. magnetizing a piece of steel
12. melting wax
13. burning wax
14. hammering gold into a thin foil
15. pouring molten gold into a mold
16. dissolving sugar in water