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 volumeb. 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".
- 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