Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_

**Physical and Chemical Properties/Changes**

|  |  |
| --- | --- |
| **Vocabulary Word** | **Definition** |
| Physical property |  |
| Physical change | Change in which the identity of the substance does NOT change |
| Chemical property |  |
| Chemical change | Change in which the identity of the substance DOES change |

**Part One: Fill in the chart using the words listed below. Each word is used one time.**

|  |  |  |  |
| --- | --- | --- | --- |
| Boiling point | Elasticity | Volume | Hardness |
| Digestion of food | Flammability | Density | Transparency |
| Color | Shape | Rusting | Formation of bubbles |

|  |  |
| --- | --- |
| **Chemical Properties** | **Meaning** |
|  | Ability to burn |
|  | When metal changes to an orangish-brown color when mixed with oxygen |
|  | When gases are released in a mixture |
|  | When your body uses acid to break down food |
| **Physical Properties** | **Meaning** |
|  | The shade of an object (Crayola makes good ones) |
|  | Round, square, triangle, cylinder |
|  | Amount of space an object takes up |
|  | How hard or soft an object is |
|  | Ability of a material to stretch; like a rubber band |
|  | Mass of an object in a given volume |
|  | Temperature at which a material begins to boil |
|  | Property of letting let pass through an object |

**Part Two: Label each process below as Physical Change (P) or Chemical Change (C).**

\_\_\_\_\_1. Glass breaking (changing shape)

\_\_\_\_\_2. Hammering wood together (changing shape)

\_\_\_\_\_3. A rusting bicycle

\_\_\_\_\_4. Separating sand from gravel

\_\_\_\_\_5. Dying your hair a new color

\_\_\_\_\_6. Baking a cake from flour, eggs, butter, and other ingredients

\_\_\_\_\_7. Cutting grass

\_\_\_\_\_8. Burning wood into ashes

\_\_\_\_\_9. Fireworks exploding

\_\_\_\_\_10. Crushing a can

\_\_\_\_\_11. Boiling water

\_\_\_\_\_12. Digesting pizza from lunch

\_\_\_\_\_13. Evaporating water (water changes from a liquid to a gas)

\_\_\_\_\_14. Mixing vinegar with baking soda and watching the bubbles that form erupt

\_\_\_\_\_15. Stretching a rubber band