



WORKSHEET ON CHEMICAL VS PHYSICAL PROPERTIES AND CHANGES

Keep this in your binder as a study guide! You will have a quiz on this next class!

Background: Keeping the difference between physical and chemical properties as well as changes can be a challenge! This worksheet will help you do this. First, use the book to define the following terms.

| VOCABULARY WORD | DEFINITION |
|-------------------|---|
| Physical Property | (A) |
| Physical Change | Change in which the identity of the substance does NOT change |
| Chemical Property | |
| Chemical Change | (C) |

Part One: Physical or Chemical Property? Fill in the chart using the vocabulary words or phrases provided.

Vocabulary words

| | | | | |
|---------------|-----------------|---------------|--------------|-------------------------|
| Boiling point | Ability to rust | Melting point | Brittleness | Reactivity with vinegar |
| elasticity | Flammability | Density | Transparency | ductility |

Each word is used once. Define the word when done!

| Chemical Property↓ | Definition |
|--------------------|---|
| (D) | <ul style="list-style-type: none"> The ability to burn Reacts with oxygen to produce rust |
| (E) | |
| (F) | |

| Physical Property↓ | Definition |
|--------------------|--|
| (G) | <ul style="list-style-type: none"> The property of letting light pass through something |
| (H) | |
| (I) | |
| (J) | |
| (K) | |
| (L) | |
| (M) | |

Part Two: Physical or Chemical Change? Indicate with a 'P' or a 'C' which type of change is taking place.

- | | |
|------------------------------------|---------------------------------|
| 1. _____ glass breaking | 10. _____ mixing salt and water |
| 2. _____ hammering wood together | 11. _____ mixing oil and water |
| 3. _____ a rusting bicycle | 12. _____ water evaporating |
| 4. _____ melting butter | 13. _____ cutting grass |
| 5. _____ separate sand from gravel | 14. _____ burning leaves |
| 6. _____ bleaching your hair | 15. _____ fireworks exploding |
| 7. _____ frying an egg | 16. _____ cutting your hair |
| 8. _____ squeeze oranges for juice | 17. _____ crushing a can |
| 9. _____ melting ice | 18. _____ boiling water |