

Warm - Up

What is the difference between qualitative and quantitative? Give 3 examples of each one.

Previously...

- We talked about matter and physical properties.
- Qualitative vs Quantitative

The other property of matter is a chemical property.

Chemical property - any property that describes how a substance reacts with another substance when forming something new.

Examples of a chemical property:

- Combustability
- Reacting with acids
- Reacting with air
- Reacting with water

Chemical vs Physical Change

Look at pages 28-29 in your book and write down the difference between these two types of changes.

With a physical change, the substance remains the same. With a chemical change. We end up having a new substance with different properties.

How do you know a chemical change has happened?

1. A new color appears
2. Heat or light is given off
3. Bubbles of gas are formed
4. A precipitate (solid) forms in a liquid.
5. The change is difficult to reverse

Classify each of these as a chemical or physical change. Explain your answers.

- (a) Rust
- (b) Igniting a campfire
- (c) Shredding paper
- (d) Bleaching clothes

Chemical and Physical Properties and Changes

Physical versus Chemical Change handout