



# Properties of Matter

3-3

Chemical Properties

# Chemical Properties of Matter

- Ability of a substance to undergo a chemical reaction (change)
  - Ex: Wood burns, creating charcoal, ash, and smoke
- Flammability – ability to burn
- Reactivity – ability of two or more substances to combine and form a new substance (Ex: iron and oxygen make rust)



# Chemical Change

- Happens when one or more substances are changed into new substances with different properties



# Properties vs. Changes

- Chemical Properties

- Describe which changes will occur and which will not



- Chemical Change

- Process by which matter changes into different matter
- EX: sour milk, digestion



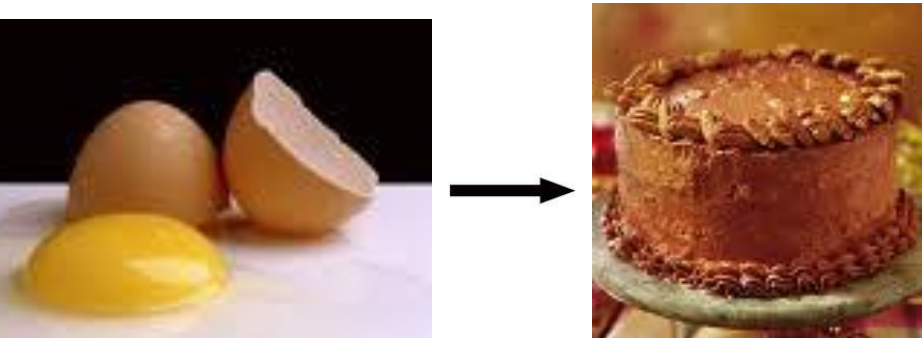
# Signs of chemical change

- Signs that could indicate a chemical change:
  - Change in color or odor
  - Production of heat
  - Fizzing or foaming
  - Sound or light



# Chemical vs. Physical

- Chemical Change:
  - Is it a different substance?
  - Ex: taking eggs, flour, and sugar and baking them into a cake



- Physical Change:
  - Is it still the same substance, even if it looks different?
  - Ex: a melted popsicle

