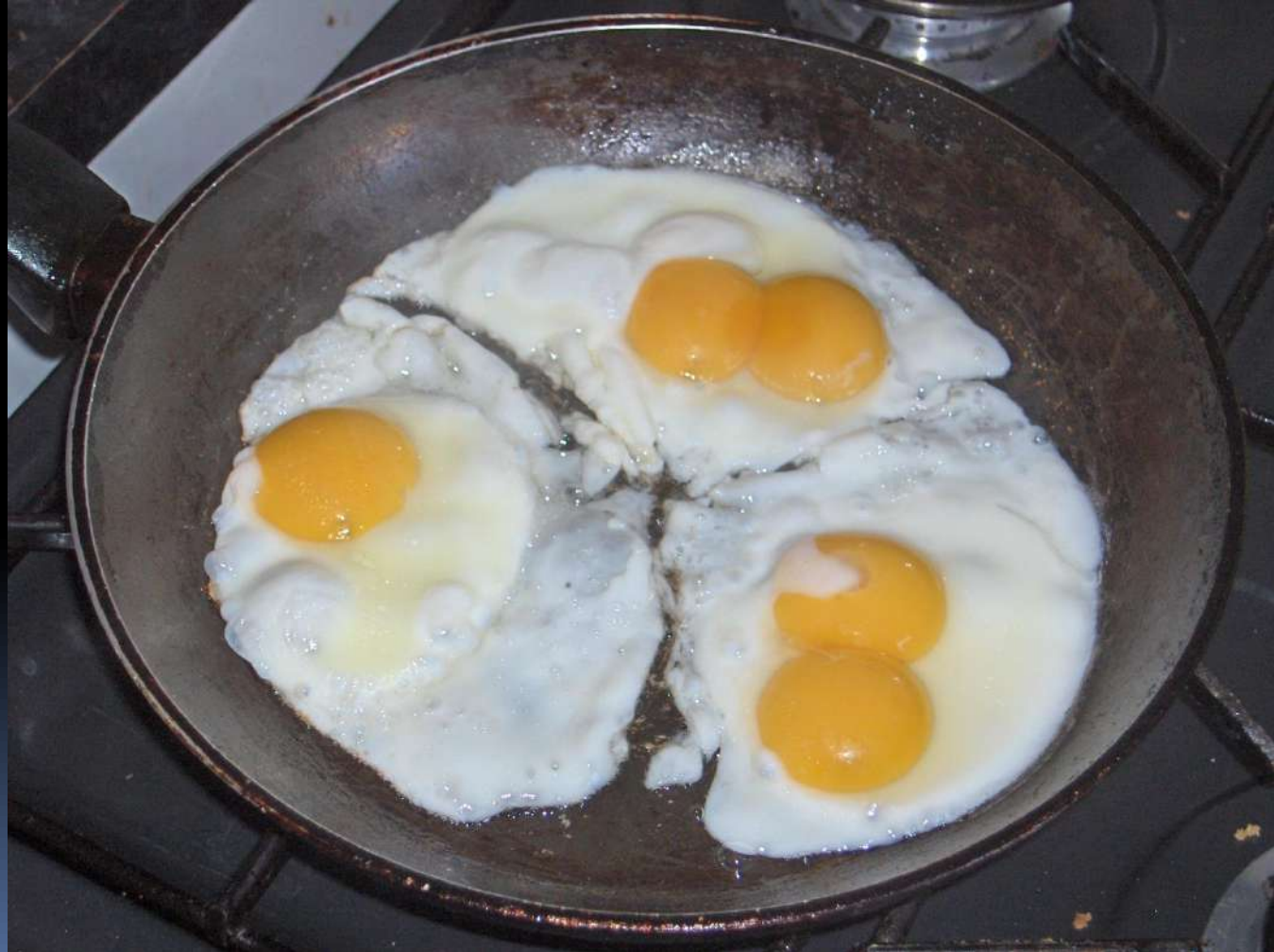




Instructions

- You will be shown different slides.
- On page 22 in your notebook, write down the item from each slide and then write whether you think it is a physical or chemical change.
- Think about why you decided on your answer and be ready to discuss when we go over them.

Frying Eggs



Making Toast



Cracking Eggs



Slicing bread



Lighting a Match



Roasting Marshmallows



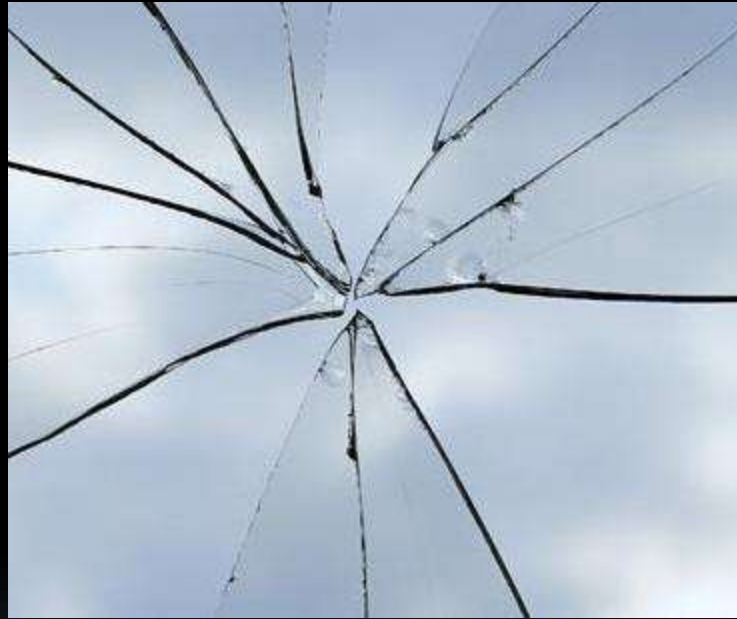
Rusting Nails



Melting Ice



Breaking Glass



Boiling Water



Making Lemonade



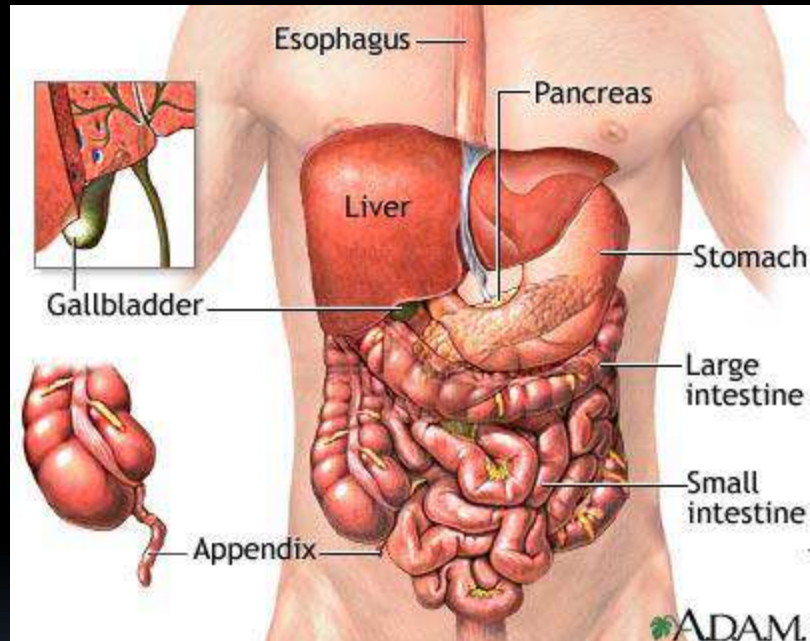
Baking a Cake



Popping Fireworks



Digesting Food in Stomach



Mowing the Lawn



Everyday Stuff: **Chemical** **and Physical Changes**

S8P1E. DISTINGUISH BETWEEN
CHANGES IN MATTER AS
PHYSICAL OR CHEMICAL

EQ: HOW DO YOU KNOW IF A
PHYSICAL OR CHEMICAL CHANGE
HAS TAKEN PLACE?

Physical Changes

- Physical change is any change in size, shape, form, or state of matter.
- All state changes are physical changes!
- The identity of the matter stays the same only some physical properties change.
- Most physical changes are reversible
- Real Life Example: Cutting a watermelon into pieces is a physical change. The watermelon has changed in size and shape, but it's still watermelon.
- Give me some examples of physical change

Chemical Change

- Chemical change is when one type of matter changes into another type of matter with totally different properties
- Chemical change is the same as a chemical reaction
- Whenever something burns, a chemical change is taking place.
- Most chemical changes are irreversible because totally new substances are formed
- Real Life Examples: Apple turning brown from leaving it out, leaf changing color in the fall, food that we eat being changed so that our body can use and absorb the nutrients.

How do you know when a chemical change has happened?

- There is.....
- A release or absorption of energy in the form of light, heat, or sound
- A formation of a gas after a chemical reaction
- A formation of a precipitate (solid) after a chemical reaction
- Often, a change in color. However, this is not always the case. Can you think of exceptions to this one? Give me an example.
- Give me some examples of chemical change



Contrasting Properties and Changes

- Physical and chemical properties help identify different types of matter. Example: Density, mass, volume, combustibility, and flammability.
- Physical and chemical changes is when the matter changes. Changes are an action. Something is happening. Example: condensation, evaporation, melting, rusting.

Answers

- Frying Eggs- Chemical
- Making Toast- Chemical
- Cracking eggs- Physical
- Slicing Bread- Physical
- Lighting Match- Chemical
- Roasting Marshmallows- Chemical
- Rusting Nails- Chemical
- Melting Ice- Physical
- Breaking Glass- Physical
- Boiling Water- Physical
- Making Lemonade- Physical
- Baking a Cake- Chemical
- Popping Fireworks- Chemical
- Digesting Food- Chemical
- Mowing the Lawn- Physical