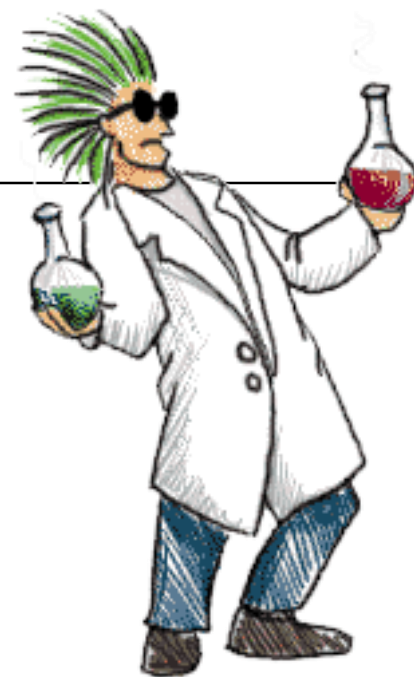


Physical and Chemical Changes

A Write On Activity



Objective: Chemical/Physical Change: Differentiate

- *The learner will be able to (ESSENTIAL) distinguish between a physical and chemical change.*





Matter

- ❑ Matter is everywhere.
- ❑ Matter is anything that takes up space and has mass.
- ❑ Matter is constantly experiencing both chemical and physical changes.



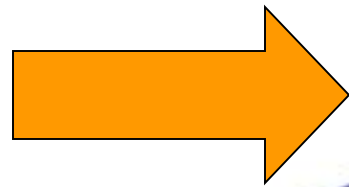
Physical Change

- **Physical changes** occur when matter changes its property but not its chemical nature.
- Physical property changes could include a change in: texture, shape, size, color, odor, volume, mass, weight, and density.

Physical Change



Physical Change





Chemical Change

- ❑ **Chemical changes** are changes matter undergoes when it becomes new or different matter.
- ❑ To identify a chemical change look for signs such as color change, bubbling and fizzing, light production, smoke, and presence of heat.

Chemical Change

- A chemical change occurs when fireworks are used. Fireworks are made of metals such as magnesium and copper. These change chemically as they light up the sky.



Is it a chemical or physical change?

□ Sugar dissolving in tea

• Chemical Change

• Physical Change



NO!

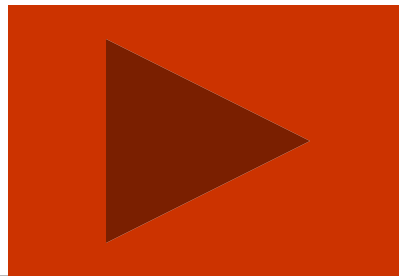
OOPS!



Did it change size, color, shape (Physical Change)?

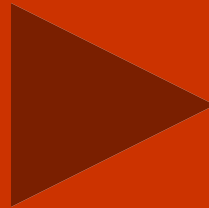
or

Did it become different matter (Chemical Change)?



Correct!

YES!



Is it a chemical or physical change?

□ Logs burning



• Chemical Change

• Physical Change

NO!

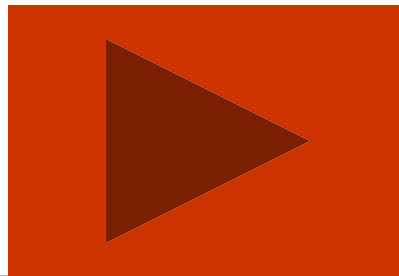
OOPS!



Did it change size, color, shape (Physical Change)?

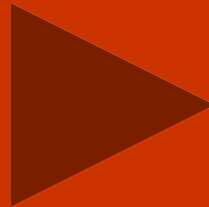
or

Did it become different matter (Chemical Change)?



Correct!

YES!

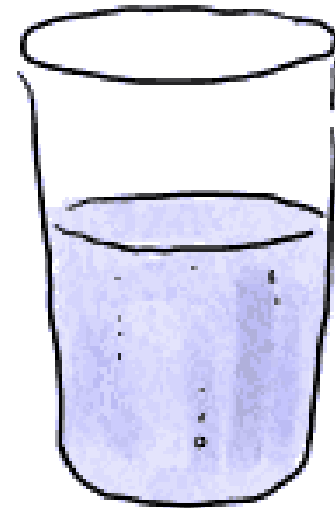


Is it a chemical or physical change?

□ Breaking water up by separating it into hydrogen and oxygen

• Chemical Change

• Physical Change



NO!

OOPS!



Did it change size, color, shape (Physical Change)?

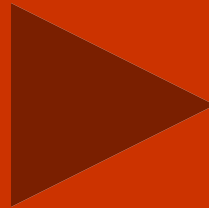
or

Did it become different matter (Chemical Change)?



Correct!

YES!

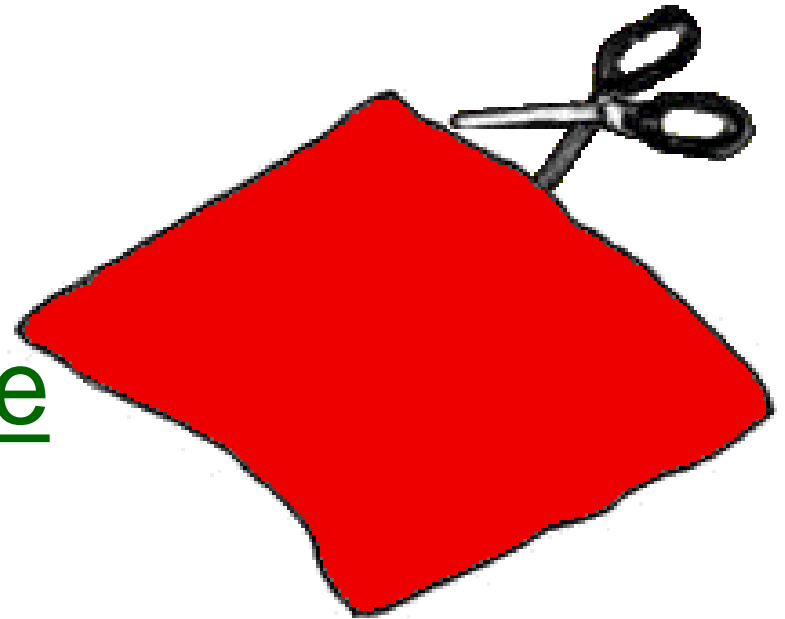


Is it a chemical or physical change?

□ Cutting paper

- Chemical Change

- Physical Change



NO!

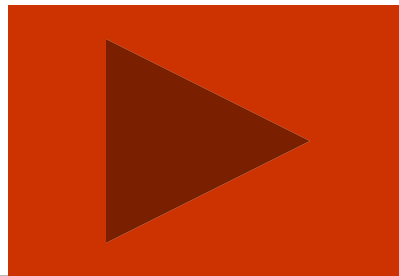
OOPS!



Did it change size, color, shape (Physical Change)?

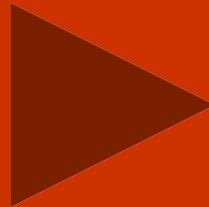
or

Did it become different matter (Chemical Change)?



Correct!

YES!



Is it a chemical or physical change?

□ Crushing an aspirin



• Chemical Change

• Physical Change



NO!

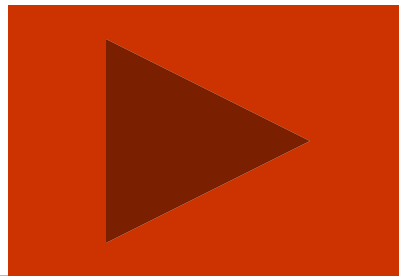
OOPS!



Did it change size, color, shape (Physical Change)?

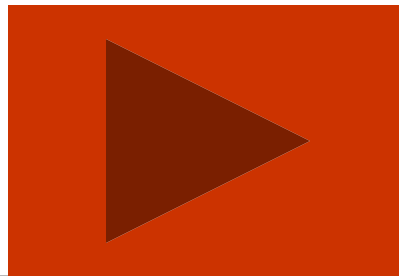
or

Did it become different matter (Chemical Change)?



Correct!

YES!



Is it a chemical or physical change?

□ Metal rusting

- Chemical Change

- Physical Change



NO!

OOPS!



Did it change size, color, shape (Physical Change)?

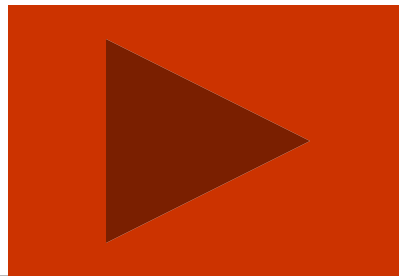
or

Did it become different matter (Chemical Change)?



Correct!

YES!



Is it a chemical or physical change?

□ Lighter fluid burning

• Chemical Change

• Physical Change



NO!

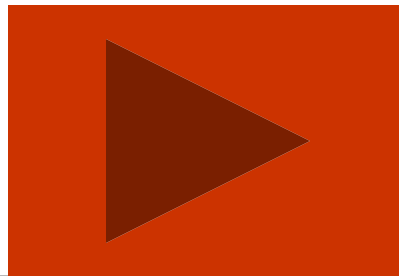
OOPS!



Did it change size, color, shape (Physical Change)?

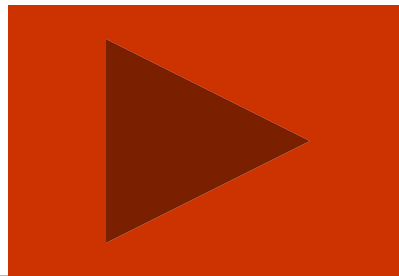
or

Did it become different matter (Chemical Change)?



Correct!

YES!



Is it a chemical or physical change?

□ An egg rotting

• Chemical Change

• Physical Change

Smells Like...



Rotten Eggs

NO!

OOPS!



Did it change size, color, shape (Physical Change)?

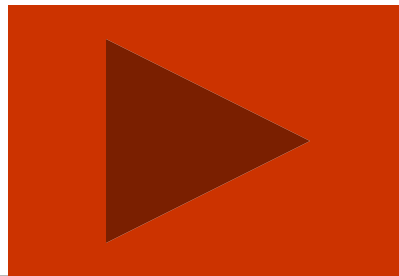
or

Did it become different matter (Chemical Change)?



Correct!

YES!



Is it a chemical or physical change?

□ An egg breaking



• Chemical Change

• Physical Change

NO!

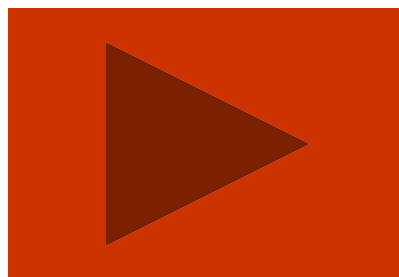
OOPS!



Did it change size, color, shape (Physical Change)?

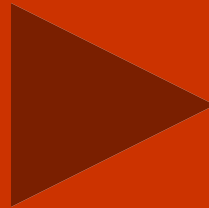
or

Did it become different matter (Chemical Change)?



Correct!

YES!



Writing Activity for your ISN

- Write a paragraph about the difference between a chemical and physical change.
- Give examples of each.

