

TYPES OF REACTIONS

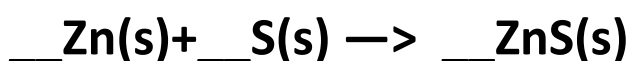
OBTAIN YOUR TEACHERS PERMISSION BEFORE PERFORMING THIS EXPERIMENT

In this experiment you will be examining **TYPES OF REACTIONS (RXNs)** It is very important that you **MEASURE EXACT AMOUNTS OF SUBSTANCES** and **FOLLOW ALL DIRECTIONS EXACTLY!!!!!!**

<u>Factors</u>
SYNTHESIS
DECOMPOSITION
REPLACEMENT
DOUBLE REPLACEMENT

SYNTHESIS OF ZINC SULFIDE

BALANCE THE EQUATION



MATERIALS:

- **GOGGLE** (over eyes) **GLOVES** (over hands)
- Test tube
- Zinc Powder, Sulfur Powder
- Ceramic Tile
- **FUME HOOD** Butane Torch from our teacher

1. **WATCH THE VIDEO OF THIS REACTION**
2. **Place a CERAMIC TILE in the FUME HOOD**
3. **Put 1 scoop of zinc powder and 1 scoop of sulfur powder into a small dry test tube.**
4. **Pour this MIXTURE ONTO THE CERAMIC TILE in the fume hood.**
5. **GLOVES and GOGGLES**
6. **Light the torch and adjust if necessary.**
7. **HEAT the MIXTURE by POINTING THE BURNER ONTO the CHEMICALS until the reaction occurs**
8. **YOU HAVE JUST SYNTHESIZED ZnS (ZINC SULFIDE)**

THIS WILL GET HOT!!

GLOVES AND GOGGLES

DESCRIBE THIS REACTION, HOW HAS THE MIXTURE CHANGED? ZINC AND SULFUR WITH ZINC SULFIDE

CLEAN UP!TEST TUBE IN RACK, TEACHER WILL DO THE REST