

ALLOTROPIC FORMS OF SULFUR

Name _____ Period _____

ALLOTROPIC -- Different arrangement of atoms of the same element.

RHOMBIC SULFUR -- Crystals with opposite side parallel.

DEMO: Prepare by the evaporation of a sulfur solution.

MONOCLINIC SULFUR -- Needle-like crystals.

GOGS ON!

PREPARATION: *List your observations on the back.*

1. Fill a sulfur TT 3/4 full of sulfur.
2. Very gently just melt the sulfur (114°C).
3. Pour the sulfur into a *cootie*.
4. As soon as it solidifies, break it in half.
5. Observe all. *List your observations on the back. Who has the greatest crystals?*

AMORPHOUS SULFUR-- No definite shape.

PREPARATION: *List your observations on the back.*

1. Prepare a beaker of water brim-full.
2. Place a piece of paper under the beaker of water to protect the table top.
3. Refill the above TT 3/4 full of sulfur.
4. Heat the sulfur to boiling (400°C) observing all.
5. **VERY CAREFULLY** pour the boiling sulfur into the beaker of water.
6. **OBSERVE ALL.** Fondle the amorphous sulfur, and make a Christmas Tree ornament.
7. Return the TT when is cool. Do NOT use water!

CRITIQUE OF THE LAB: