





Name: _____ #: _____

Date: _____ Section: _____ HR: _____

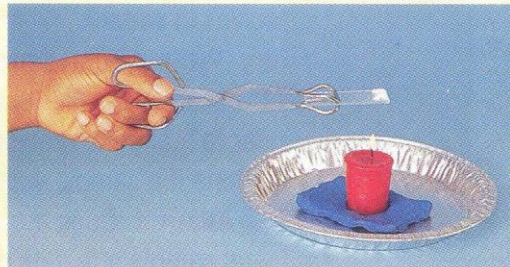
DISCOVER

ACTIVITY

How Does the Rate of Cooling Affect Crystals?

1.  Put on your goggles. Use a plastic spoon to place a small amount of salol near one end of each of two microscope slides. You need just enough to form a spot 0.5 to 1.0 cm in diameter.
2.  Carefully hold one slide with tongs. Warm it gently over a lit candle until the salol is almost completely melted.
3. Set the slide aside to cool slowly.
4. While the first slide is cooling, hold the second slide with tongs and heat it as in Step 2. Cool the slide quickly by placing it on an ice cube. Carefully blow out the candle.
5. Observe the slides under a hand lens. Compare the appearance of the crystals that form on the two slides.
6. Wash your hands when you are finished.

CAUTION: Move the slide in and out of the flame to avoid cracking the glass.



Think It Over

Relating Cause and Effect

Which sample had larger crystals? If a mineral forms by rapid cooling, would you expect the crystals to be large or small?

Think It Over
