

Return To [Primary Lesson Plans](#)

Title: Coal Flowers

Level: Primary - Intermediate (K - 5)

Time: 20 - 30 minutes for initial activity - then several hours for crystal formation

KERA Goals: 1.3, 1.5 - 1.9, 2.3, 2.10

Objective: Student will observe the effect of certain chemicals on coal for crystal formation.

Materials:

Shallow glass bowl

Coal

Glue

Twigs or toothpicks

Salt

Laundry blueing

Water

Ammonia

Food coloring

Bowl

Activity:

1. In a shallow glass dish place several small lumps of coal.
2. Interwork twigs and/or toothpicks with coal. You may need to use glue to hold the twigs and/or toothpicks to the coal.
3. In a separate bowl mix:

6T salt
6T laundry blueing
6T water
6T ammonia
4. Pour the mixture over the coal mound.
5. Sprinkle dots of food coloring randomly over the mound.
6. Crystals will begin to form within several hours.

TIP: If your grocery store does not carry laundry blueing, check with the local pharmacist.

coal flowers- primary

Provided by American Coal Foundation

Return To [Primary Lesson Plans](#)