# **Designing Environmental Solutions**

## **Materials List**

# **Chapter 2, Air Pollution Solutions**

# **Engage Materials**

## For each student:

pens or pencils of different colors

#### For the demonstration:

1 candle with holder safety matches 1 heat-resistant white tile water for disposal of the match

# **Explore Materials**

### For each class of 30 students, teams of 3:

5 copies of Master 2-1, *Pollution Detector Template*, cut apart 1 roll of clear packing tape (48 mm wide) 10 pairs of scissors 10 hole punches masking tape for positioning finished pollution detectors string for hanging finished pollution detectors 5 copies of Master 2-2, *Pollutants* 

### **Explain Materials**

#### For teacher preparation:

water vinegar baking soda pH paper (or a pH meter)

#### For each class of 30 students, teams of 3:

20 zip-top plastic sandwich bags 20 paper towels (plain white works best) 200 radish seeds 10 graduated cylinders (25 or 50 mL) water acid water (pH 3) 10 permanent markers 30 pairs of latex gloves (optional)

#### **Elaborate Materials**

### For each team of 4 students:

1 copy of Master 2-3, Technologies Related to Air Pollution

#### **Evaluate Materials**

none