

## I Breath What? Activity – Pollution Detector Worksheet

### Analyze

To analyze the particles your detector collected, follow these steps:

1. Cut a square piece of graph paper 5 squares by 5 squares.
2. Place the piece of graph paper on the microscope stand.
3. Place your pollution detector on top of the graph paper.

### Calculate

Calculate the average number of particles through the following steps:.

1. Look through the microscope and choose one square that has just a few particles. Count the particles and record the number in the table below.
2. Choose another square that has a medium number of particles, count the particles and record the number below.
3. Choose a square that has a lot of particles, count the particles and record the number.
4. Calculate the average by adding the number of particles in each square and dividing by three.

	Number of Particles
Square #1 (with a small number of particles)	
Square #2 (With medium number of particles)	
Square #3 (With lots of particles)	
Total (Add all the above numbers)	
Average (Divide the total by three)	

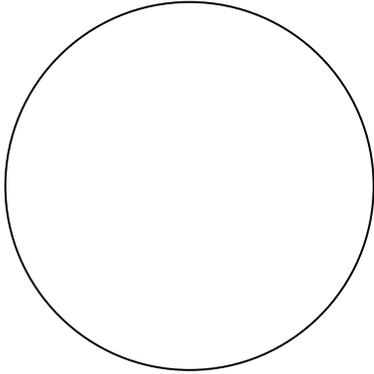
Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Sketch and Describe the Pollution

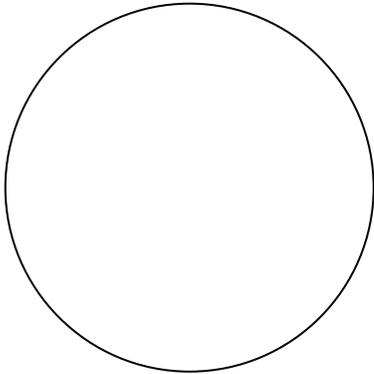
1. Choose three different particles and sketch them in the circles provided below.
2. Write a description of the each particle, including the approximate size, color and texture.

**Drawings**

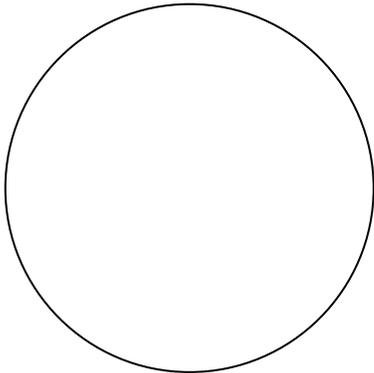
**Descriptions:**



Particle #1



Particle #2



Particle #3