



Name _____

Date _____

Block _____

Lesson 4.2: Air and Smells

We have learned that air is a mixture made of many different kinds of molecules. Mostly, air is made of gas molecules, although there are some molecules of solids (like dust) and liquids in the air. Another thing that we often think of when we think of air is smell. We frequently detect pleasant (and unpleasant) smells in the air. What are smells?

1. What do you think? What are smells?
2. Your teacher will release some perfume in the room. Record your observations.

What is a smell? A smell is a gas and is made of molecules. When a bottle of perfume or Pine-Sol is opened, some molecules of the perfume or Pine-Sol leave the bottle, go into the air and mix with the air. These molecules are constantly moving, just like other molecules in the air, so they spread out until the perfume or Pine-Sol molecules reach and affect your nose. Then you can smell them.

3. How did the perfume travel from where it was released to your nose? Use molecules in your answer. Then, draw a picture.
4. Pizza is another substance you can smell, and a substance most of you enjoy! Invent a shape for the pizza molecules and draw a picture of what air in a classroom might look like shortly after your teacher brings in a box of pizza.