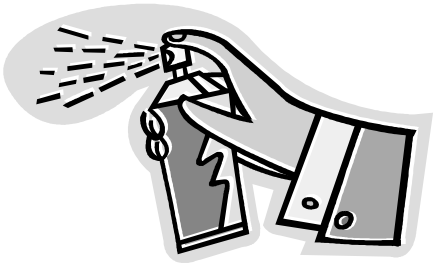
Name_____



Diffusion

Materials:

Beaker	Graduated cylinder	Food coloring	Water	Perfume

Procedure:

1. As the teacher sprays perfume in the air at the front of the classroom, time how long it takes the odor to reach the back of the room. _____
2. Fill the beaker with fresh water.
3. Place the beaker in a spot where it will not be disturbed.
4. Drop three drops of food coloring into the beaker.

Prediction:

How long do you think it will take the food coloring to become evenly spread throughout the water?

_____ (minutes / hours / days)

Explain why you predicted this:

_____

_____

Procedure:

5. Repeat steps 2 – 4 using a graduated cylinder.

Prediction:

How long do you think it will take the food coloring to become evenly spread throughout the water?

_____ (minutes / hours / days)

Explain why you predicted this:

_____

_____

Were there any differences between your two predictions? Explain them.

_____

_____

_____

Questions & Conclusions:

How long did it take the food coloring to spread out in the beaker?

_____

In the graduated cylinder? _____

Compare the movement of the food coloring molecules in water to the movement of perfume molecules in the air.

_____

_____

_____

_____