

November 27, 2018- TUESDAY

1. SIGN IN AND COLLECT MSU CONSENT FORM, HAVE YOUR PARENTS SIGNED AND RETURN TO ME DUE BY FRIDAY -10 PONTs.
2. CREATE A MODEL TO EXPLAIN OBSERVATIONS OF WATER AND ALCOHOL FROM YESTERDAY'S EXPERIMENT: TRY TO ANSWER THE FOLLOWING QUESTION:

Why does the water not spread out like alcohol when placed in the petri dish?

You need to know the following in order to explain this observation

- Substances at the bulk scale are made of particles (atoms and molecules)- prior knowledge.
- Water is made of H_2O molecules with a specific attraction forces between its molecules.
- Alcohol is made of C_2H_5OH molecules with a specific attraction forces between its molecules.

You can create a model, using diagrams. Work in groups - maximum 4 per group.

November 28, 2018- Wednesday:

NO CELL PHONES during the lesson.

using cell phones will be marked down for today's points.

1) Discuss the models you have created answering,

Why do we see more water after 20 min compared with alcohol? In other words why does alcohol evaporate fast?

No passes first 15 minutes or last 10 minutes of the class.

KEY TERMS:

1. Molecules
2. Inter-molecular forces
3. Evaporation

2) Remember in our experiment we added 5mL of H₂O to petri dish 1 and, 5ml Alcohol to petri dish 2. Therefore, initial volume is 5 ML. When we measure volume after 20 minutes, the volumes are given below.

Petri dish 1 -H ₂ O		Petri dish 2 -Alcohol	
Initial	After 20 min	Initial	After 20 min
5 ml	4.6	5 ml	4.0
	4.6		3.4
	4.6		3.5
	4.9		3.9

Observation: Compare the amounts left for alcohol vs water?