

### POGIL: Dynamic Equilibrium

The word "dynamic" means that a system is in motion. The word "equilibrium" means that the system is stable and does not change. When opposing forces or issues are balanced, a system is said to be in equilibrium. So the question becomes, "How can there be a system that's in motion and in equilibrium at the same time?"

If the forward and reverse processes of a reversible process are occurring, then the system is said to be "dynamic." If the forward and reverse reactions are occurring simultaneously at the same rates, then the system is in a state of "equilibrium."

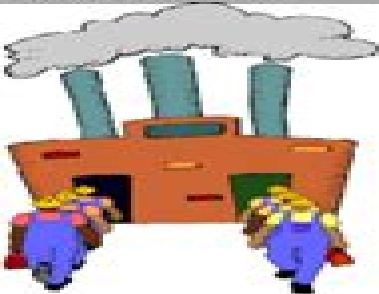
*Equilibrium exists when the rate of the forward reaction equals the rate of the reverse reaction.*



**VERY IMPORTANT:** *Equilibrium DOES NOT MEAN that there is the same amount of reactants and products.*

*A dynamic equilibrium means that the amounts of reactant and products are staying constant even though the reaction is still going.*

#### MODEL 1: Dynamic Equilibrium

|                                                                                    |                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Acme Manufacturing has been restricted to 100 employees in the building at one time. Throughout the day, twenty employees go on break each hour as twenty other employees return from break.</p> |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Questions:

- 1) How many employees move in and out of the factory building during each hour?
- 2) Are the employees who move in and out of the building each hour the same people? Explain your answer.
- 3) Does the number of employees in the building change from hour to hour? Explain your answer.

# Pogil Chemistry Equilibrium Answers

**A Loxley**



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