

INTRODUCTION TO EQUILIBRIUM - WORKSHEET

1. Sketch the following systems:

- closed system
 $\rightarrow$ **Exemplified by a bicycle bell as an object that can move but not exchange matter with its surroundings**
- open system (equilibrium)
 $\rightarrow$ **Exemplified by a bicycle bell connected with another system where a constant inflow of air keeps it moving**
- isolated system (equilibrium)
 $\rightarrow$ **Water in a closed flask spontaneously coming to rest, hence in the physical sciences**

2. Give an example of three types of equilibrium systems:

- chemical equilibrium: a bell with input of air (products) and output of bellows (reactants) e.g. **bellows in the lung, CO_2 and O_2**
- phase equilibrium: liquid water, water vapor (input and output) e.g. **clouds in the sky**

3. a. Consider a closed flask filled partly with water. Suppose only one liquid vapour system is considered, an example of a system in equilibrium and write the equilibrium equation.

This is an example of an equilibrium because it is a closed system.

b. Consider a closed flask containing a substance in two phases with a piston. Suppose crystals of the substance of the solution. Explain why the crystalline system is considered an example of a system in equilibrium and write the equilibrium equation.

This is an example of an equilibrium because it is a closed system, with no exchange of matter with its surroundings. It is a system in equilibrium and write the equilibrium equation.

4. Some systems appear to be in equilibrium, but really they are not. Differentiate systems that are considered as "nearly closed" systems. Namely, nearly closed systems are open systems where input of energy and materials is equal to the output of energy and materials. For example: think of a battery that generates electricity. Power is always being used and produced and energy being exchanged. There is no net change in position of particles.

Identify the following as equilibrium systems (E), nearly closed (NC) systems, or neither:

- Exhaust pipe of motor as hydrocarbon leaves **NC**
- Exhaust system car with flow of gas that prevents it in **NC**
- The motor of a car (Exhaust system closed) **NC**
- A. Hydrocarbon leaving in the battery **NC**
- The equilibrium of a chemical and thermally, input and output of

Introduction To Equilibrium Lab Answers

Patrick Vollmar



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