

**A. Only two variables: energy and matter**

**B. Open system**

Definition:

Example:

**C. Closed system**

Definition:

Example:

**D. Dynamic steady state**

Where in = out within an open system

**E. Dynamic equilibrium**

Where in = out within a closed system

**F. Homeostasis = steady state**

**G. Systems controlled by feedback**

1. Negative feedback:

Example:

2. Positive feedback:

Example: