**Vocabulary**

*Energy:* the property of matter and radiation that is manifest as a capacity to perform work (such as causing motion or the interaction of molecules).

*Mass*: the quantity of matter that a body contains, as measured by its acceleration under a given force or by the force exerted on it by a gravitational field.

*Momentum:* the quantity of motion of a moving body, measured as a product of its mass and velocity.

* Fluid dynamics - transport of momentum
* Heat transfer - transport of energy
* Mass transfer - transport of mass
* Occur simultaneously
* Equations are closely related
* Molecular mechanisms closely related