

## CH 105 Supplemental Instruction

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Sessions: Monday, 1:15-2:15, EB 128

Wednesday, 3:30-4:30, EB 133

Office Hour: Thursday, 3:30-4:30, EB 242 (Academic Success Center)

### Energy:

1. Define the following:

- Potential Energy:

stored energy (in chemical bonds)

- Kinetic Energy:

energy of motion

- Heat: associated w/ how fast molecules are moving.

2. What must happen for a chemical reaction occur?

molecules combine w/ enough force to break bonds and then form new ones.

→ (kinetic energy)

3. Are molecules moving faster in hot or cold water? Why?

hot water b/c more heat means more kinetic energy.

\*\* Converting calories to Calories and joules to kilojoules is dimensional analysis. Use the conversions Dr. Harville gives you and follow the same steps that we followed in the first two SI sessions\*\*