

## COE and Heat

- Heat (Q) is created when work is done against friction.
- $\cdot W_f = Q$
- Heat (Q) is always added to the <u>"end"</u> side of the COE equation.
- You cannot have heat generated unless work has been done against friction.



- When a moving object slides to a stop, friction is involved.
- Friction causes heat energy, Q
- Kinetic energy is changed into the same amount of heat energy.
- KE = Q
- Energy = Energy











