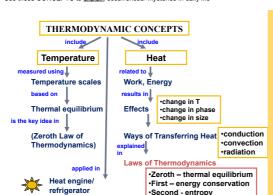
Our instructional objectives:

Define the various CONCEPTS related to the Theory of Heat and Thermodynamics

Compare these CONCEPTS with each other

Differentiate CONCEPTS that are quite similar to each other

Use these CONCEPTS to explain occurrences/ mysteries in daily life



Second - entropy

Temperature

- · Measure of how HOT or COLD a body is
- · Determines the direction of heat flow
- Measure of random average translational **KE** of molecules of the body



Temperature Scales

- · Celsius : T c
- Kelvin: $T_k = T_C + 273$
- Fahrenheit:

$$T_C = (5/9) (T_F - 32)$$

Zeroth Law of Thermodynamics



- 80°

_ 60°

40° -32° -20° -

If
$$T_A = T_B$$
 and $T_B = T_{C,}$
then $T_A = T_C$

"If body A is in thermal equilibrium with body B,

and B is in thermal equilibrium with C, then A is in thermal equilibrium with C."

