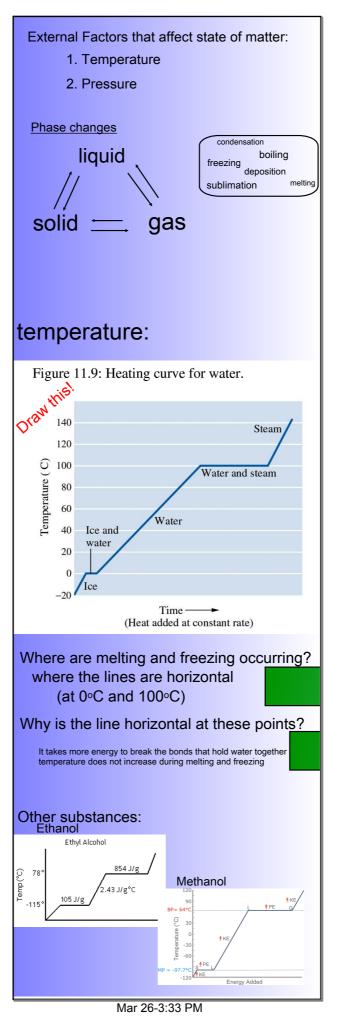
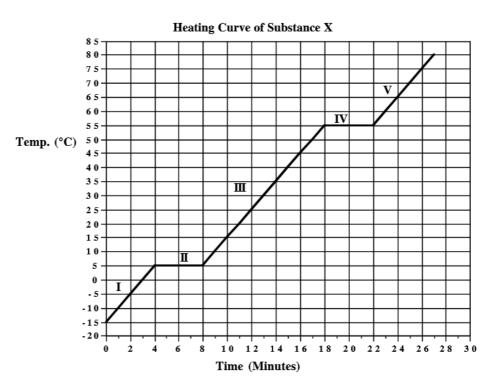
States of Mattter

What external factors affect whether something is a solid, liquid or a gas?





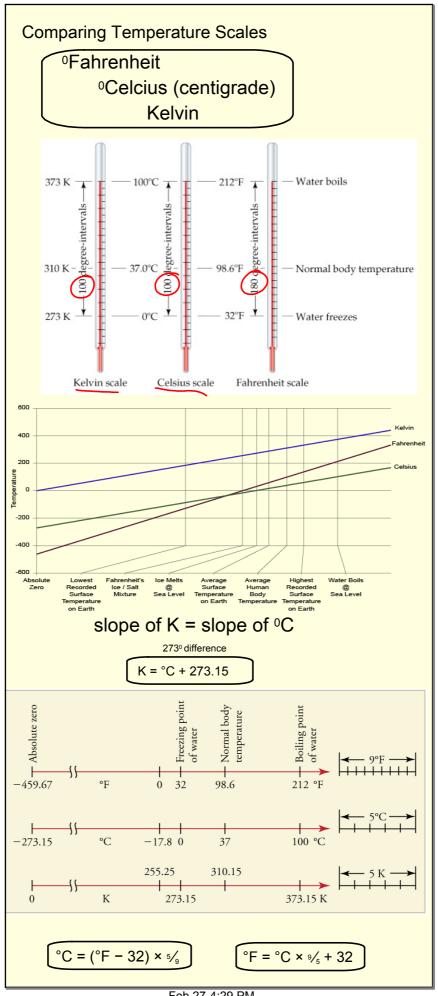
HEATING CURVE WORKSHEET



The heating curve shown above is a plot of temperature vs time. It represents the heating of substance X at a constant rate of heat transfer. Answer the following questions using this heating curve:

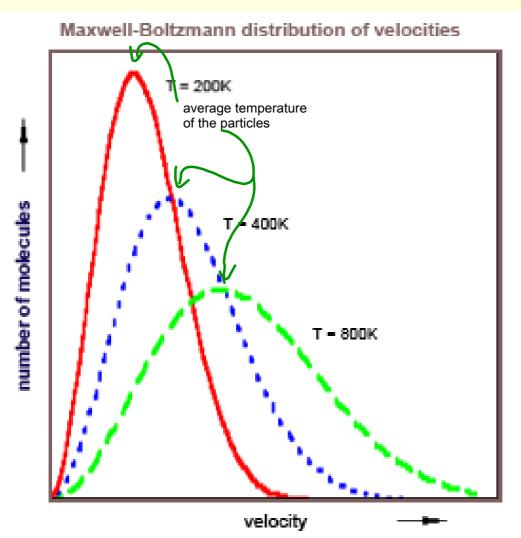
1. In what part of the curve	would substance X have a	definite shape and definite volun	ıe?
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- 2. In what part of the curve would substance X have a definite volume but no definite shape?
- _____3. In what part of the curve would substance X have no definite shape or volume?
- _____4. What part of the curve represents a mixed solid/liquid phase of substance X?
- _____5. What part of the curve represents a mixed liquid/vapor phase of substance X?
- _____6. What is the melting temperature of substance X?
- ______7. What is the boiling temperature of substance X?



Feb 27-4:29 PM

Temperature is the measure of velocity of the particles



KE is dependent on speed of particles KE=1/2 mv²

In any particular mixture of moving molecules, the speed will vary a great deal, from very slow particles (low energy) to very fast particles (high energy).

Most of the particles however will be moving at a speed very close to the average.

The Maxwell-Boltzmann distribution shows how the speeds (and hence the energies) of a mixture of moving particles varies at a particular temperature.

temperature-convert.webloc