

Name 1st hour

Bill Nye: Heat

- Heat is energy and so heat can do work.
- Heat moves around the universe in 3 ways.
- What are 3 ways heat moves?  
a. conduction    b. convection    c. radiation
- Even cold things have heat.
- The molecules of cold things move more slowly than molecules of warm things.
- Which has more heat energy: the match or the sculpture?
- The reason is b/c the sculpture has more molecules.
- In the beaker, the water nearest the flame becomes hot.
- Transfer of heat by currents through liquid or gas is called convection.
- An infrared camera is sensitive to heat.
- Blue is cold and red is hot.
- A very hot object can radiate heat in the form of waves.
- Even glaciers have heat.
- When warm air rises from the toaster it is called convection.
- Clothes dryers work with forced convection.
- Gloves, hats, and sweaters keep in your body heat.
- The farther apart the molecules are, the harder it is for heat to be transferred.
- On a hot day, a heat pump forces heat out of the building.
- On a cold day, a heat pump forces heat into the building.
- Everything has heat.
- The floor, walls, and ceilings of a room radiate heat.
- What is Bill Nye going to monitor?  
infrared radiation