

**81a – Hot stuff**

Word	Pronunciation	Meaning
degrees Celsius	<i>sell-see-us</i>	The units for measuring temperature.
heat		A form of energy, measured in joules.
joule (J)		The units for measuring energy.
temperature		How hot something is, measured in °C.
thermal energy		Another name for heat energy.
transfer		To move from one place to another. For example, when a fuel burns, energy stored in the fuel is transferred to the thing being heated.

**81b – Heating solids**

Word	Pronunciation	Meaning
conduction	<i>con-duck-shun</i>	The way heat travels through solids.
conductor		A material that lets energy flow through it easily.
contract		Get smaller.
expand		Get bigger.
insulator		A material that does not let energy flow through it easily.
The particle model of matter		Otherwise known as particle theory. Theory that says that all materials are made out of particles that are constantly moving.
thermal conductor		A material that lets heat energy flow through it easily.

**81c – Heating fluids**

Word	Pronunciation	Meaning
convection	<i>con-vek-shun</i>	The transfer of heat in fluids.
convection current		A current created by heat causing changes in the density of a fluid.
fluid		A gas or a liquid.

**81d – Changing state**

Word	Pronunciation	Meaning
boiling point		When a liquid is at its boiling point, it is as hot as it can get. It is evaporating as fast as it can.
condense		When a gas turns into a liquid.
evaporate		When a liquid turns into a gas.
freezing point		The temperature at which a liquid turns into a solid. It is the same temperature as the melting point of the substance.
melt		When a solid turns into a liquid.
melting point		The temperature at which a solid turns into a liquid. It is the same temperature as the freezing point of the substance.

**81e – Radiation/Exploring the Earth**

Word	Pronunciation	Meaning
absorb		To take in energy.
emit		To give out energy.
infrared radiation		Another name for heat energy that travels by radiation. It can travel through transparent things and a vacuum (empty space).
medium		Any substance.
radiation		The transfer of heat energy by waves.
reflect		To bounce off something.

**81e – Focus on: Developing protective clothing**

No new words.