

8Fa – Sorted!/The material world

Word	Pronunciation	Meaning
alchemists	<i>al-kem-ists</i>	Scientists (originally Arabic) who carried out the first experiments to make a range of new substances.
classify		Placing things in their groups according to their characteristics.
element		All the atoms in an element are the same. A substance that cannot be split up into anything simpler by chemical reactions.
recycling	<i>ree-sy-cling</i>	Using a material again, often by melting it and using it to make new objects.

8Fb – Elementary

Word	Pronunciation	Meaning
atom		The smallest particle of an element that can exist.
mixture		Two or more different kinds of particles that are jumbled up with each other but not chemically joined to each other.
periodic table	<i>peer-ee-od-ick</i>	Table that shows all the elements, arranged in a regular order to show patterns in properties.
symbol		The letter or letters that represent an element.

8Fb – Focus on: Mendeleev's patience

No new words

8Fc – Metal detecting

Word	Pronunciation	Meaning
electrical conductor		Something that allows electricity to flow through it easily.
heat conductor		Something that allows heat to flow through it easily.
high melting point		Something with a high melting point has to be at a very high temperature before it melts. It is a solid at room temperature.
insulator		A material which does not let energy flow through it easily.
low boiling point		Something with a low boiling point will boil and turn into a gas at a relatively low temperature. It can be a solid, a liquid or a gas at room temperature.
low melting point		Something with a low melting point turns into a liquid at a relatively low temperature. It can be a solid, a liquid or a gas at room temperature.
magnetic		A material that is attracted to a magnet.
metals		Elements that are shiny, conduct heat and electricity well, and often have high melting and boiling points.

8Fc – Metal detecting (continued)

Word	Pronunciation	Meaning
non-metals		Elements that are not shiny, and do not conduct heat and electricity well.
properties		A description of how a material behaves and what it is like. Hardness is a property of some solids.
shiny		Reflects light well.

8Fd – Compound interest

Word	Pronunciation	Meaning
chemical formula		A combination of symbols and numbers that shows the ratio of the different kinds of atom that are in a particular compound.
compounds		Substances that can be split up into simpler substances. A compound contains the atoms of two or more elements joined together.
molecule		Two or more atoms joined together.
oxide		A compound that includes oxygen.

8Fe – Re-use, renew, recycle

Word	Pronunciation	Meaning
bauxite	<i>bork-site</i>	Mineral (ore) that contains aluminium oxide-the main source of aluminium.
clear		See-through or transparent.
colourless		Something that has no colour.
electrolysis	<i>e-leck-troll-ee-sis</i>	Splitting up a compound by passing an electric current through it.
re-use		When an object is used again, without being broken up or recycled.
renewable		A material or energy source that will not run out.
sustainable	<i>sus-tane-a-bull</i>	A process that allows things to continue as they are.