

Knowledge Organisers

1st Autumn Term

Science

History

Geography

Art

(This term Yr 6 will be completing a Yr5 Visual Art Printing module)

PSHE

Class 3

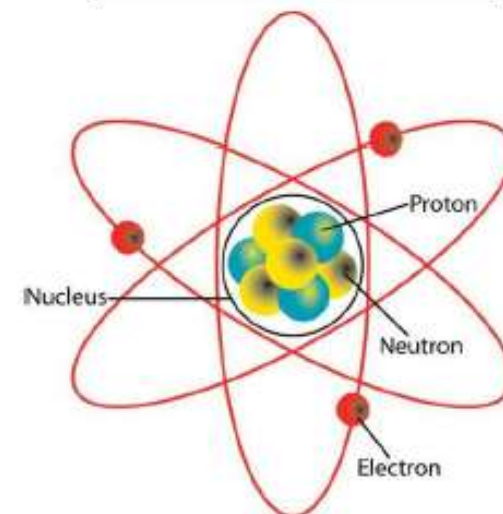
Knowledge Organiser – Science – Year 6 - Chemistry

Key Vocabulary	Definition
atom	a basic unit of matter and the smallest unit of an element
molecule	molecule is formed when two or more atoms are joined together by a chemical bond
proton	particle within the nucleus of an atom that holds a positive charge
neutron	particle in the nucleus of an atom that has no electric charge
electron	particle of an atom that orbits the atom's nucleus and carries a negative charge
nucleus	central core of an atom containing the protons and neutrons.
Periodic Table	table of the chemical elements arranged by atomic number.
elements	pure chemical substance that is made up of one type of atom
neutral	not a positive or a negative charge
compound	compound is a pure substance made up of two or more elements
reversible	Reversible changes, like melting and dissolving, can be changed back again.
irreversible	Irreversible changes, like burning, cannot be undone



John Dalton (1766 – 1844)

The Atom



Periodic Table of Elements

Atomic Number → 7		← Chemical Symbol	
7	N	N	Nitrogen
Chemical Name		Relative Atomic Mass	
NITROGEN		14.007	



alkali metals	nonmetals
alkaline metals	halogens
transition metals	noble gases
other metals	lanthanoids
metalloids	actinoids

1 H 1.00794	2 He 4.00260	3 Li 6.941	4 Be 9.01218	5 B 10.811	6 C 12.011	7 N 14.007	8 O 15.999	9 F 18.998	10 Ne 20.180	11 Na 22.990	12 Mg 24.305	13 Al 26.982	14 Si 28.086	15 P 30.974	16 S 32.06	17 Cl 35.45	18 Ar 39.948	19 K 39.098	20 Ca 40.078	21 Sc 44.956	22 Ti 47.88	23 V 50.942	24 Cr 51.996	25 Mn 54.938	26 Fe 55.845	27 Co 58.933	28 Ni 58.693	29 Cu 63.546	30 Zn 65.38	31 Ga 69.723	32 Ge 72.64	33 As 74.922	34 Se 78.96	35 Br 79.904	36 Kr 83.796	37 Rb 85.468	38 Sr 87.62	39 Y 88.906	40 Zr 91.224	41 Nb 92.906	42 Mo 95.94	43 Tc 98.906	44 Ru 101.07	45 Rh 102.905	46 Pd 106.42	47 Ag 107.868	48 Cd 112.411	49 In 114.818	50 Sn 118.710	51 Sb 121.757	52 Te 127.6	53 I 126.905	54 Xe 131.29	55 Cs 132.905	56 Ba 137.327	57 La 138.905	58 Ce 140.12	59 Pr 140.908	60 Nd 144.242	61 Pm 144.913	62 Sm 150.36	63 Eu 151.964	64 Gd 157.25	65 Tb 158.925	66 Dy 162.50	67 Ho 164.930	68 Er 167.259	69 Tm 168.930	70 Yb 173.054	71 Lu 174.967	72 Hf 178.49	73 Ta 180.948	74 W 183.84	75 Re 186.207	76 Os 190.23	77 Ir 192.222	78 Pt 195.084	79 Au 196.967	80 Hg 200.59	81 Tl 204.387	82 Pb 207.2	83 Bi 208.980	84 Po 209	85 At 210	86 Rn 222	87 Fr 223	88 Ra 226	89 Ac 227	90 Th 232.038	91 Pa 231.036	92 U 238.029	93 Np 237.048	94 Pu 244.064	95 Am 243.061	96 Cm 247.070	97 Bk 247.070	98 Cf 251.083	99 Es 252.083	100 Fm 257.103	101 Md 258.103	102 No 259.103	103 Lr 260.103
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☐ Solid at room temperature	☒ Liquid at room temperature	☒ Gas at room temperature	☒ Artificially created	☒ Radioactive
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Knowledge Organiser- World War One – History - Year 6

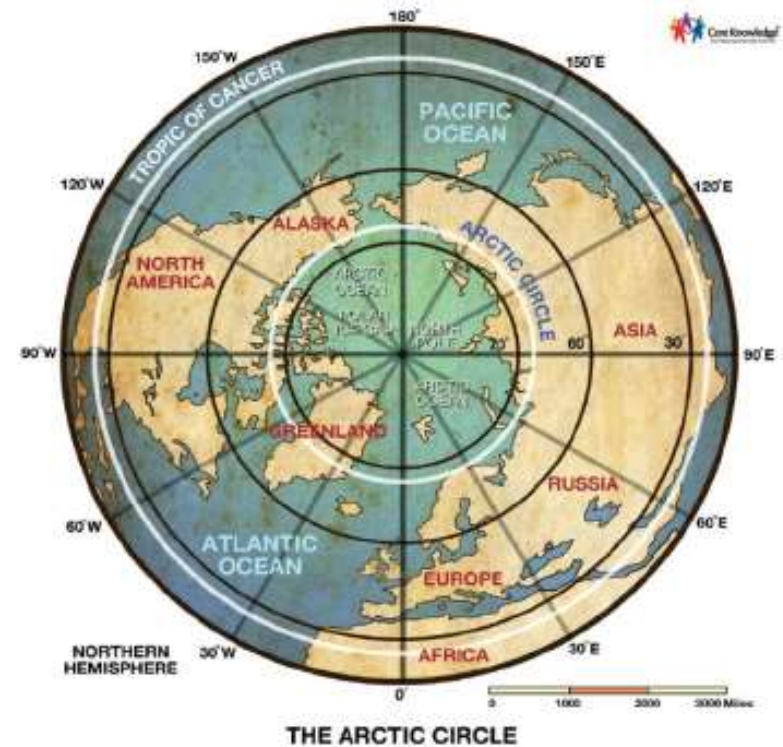
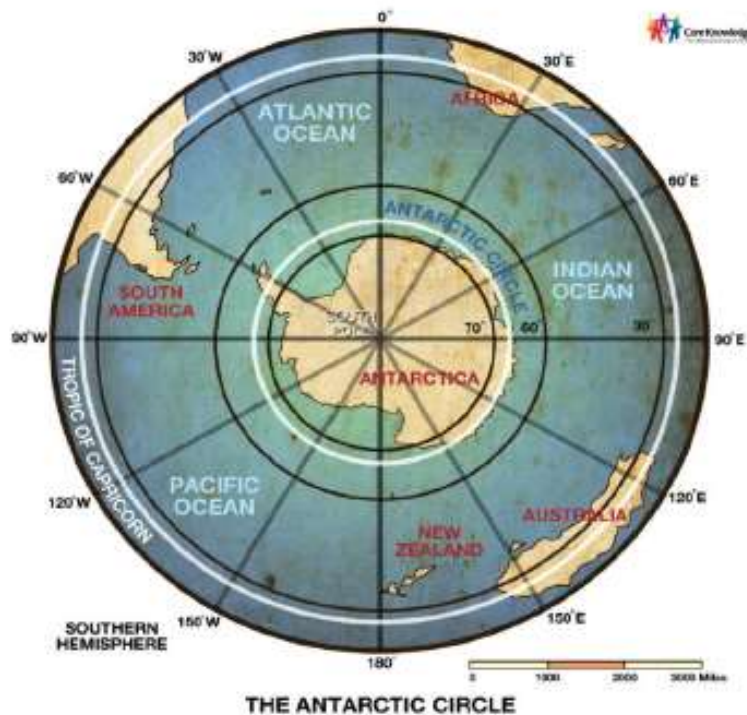
Key vocabulary	Definition
Imperialism	When a country increases its power and influence by colonising (taking over) another country.
Alliance	A union or relationship formed between countries/ organisations, to benefit them both
Mechanised warfare	The use of armoured fighting vehicles in modern warfare. Sometimes referred to as 'armoured' or 'tank' warfare.
Chemical warfare	The use of the toxic chemicals to kill or injure enemies. In WWI, Chlorine, Phosgene and Mustard Gas were used.
Trench warfare	Where opposite sides of the war fight from trenches dug into the ground, facing each other
No Man's Land	The land between the trenches of opposing armies
Home Front	The Home Front refers to life in Britain during WWI
Conscription	A law that says that if you are able to fight in the war, you have to. During WWI, by 1916, all men aged 18-41 had to go to war and fight for their country.
Armistice	An agreement made to stop fighting a war, also referred to as a 'truce'
The war was fought between:	
The Triple Alliance	Germany, Austria-Hungary and their allies
The Triple Entente	France, Britain and Russia

Key People	
Archduke Franz Ferdinand	
David Lloyd George	
Kaiser Wilhelm II	
Zeppelins	Submarine
	





Knowledge Organiser- Spatial Sense – Geography - Year 6

Key Vocabulary	Definition
Longitude	Imaginary lines parallel to the prime meridian line that help map makers locate places with accuracy. (Vertical lines)
Latitude	Imaginary lines parallel to the equator that help map makers to locate places with accuracy. (Horizontal lines)
Axis	An imaginary line around which the Earth rotates.
The Poles	The two locations on the surface of the Earth that are at the Northern and Southern ends of the axis of rotation.
Tropic of Cancer	The line of latitude 23° north of the equator.
Tropic of Capricorn	The line of latitude 23° south of the equator.
Prime Meridian	The line of longitude at 0°.
Time Zone	A range of longitude that shares a common time.
Map Projection	A method that represents the Earth on a flat surface.



Knowledge Organiser – Prints and Printmaking – Visual Arts – Year 5

Key Vocabulary	Definition
printmaking	An indirect art form, where the artist creates a design on a block, plate or screen which is then transferred to paper or fabric by a pressing with printing ink.
indirect	Where an image is not created by drawing or painting directly on the paper but by applying ink to a plate or a block and pressing paper or fabric on top.
edition	The number of prints taken from one plate or block usually at the same time.
mono-print	A single print.
relief (positive) printing	Printing created by ink covering raised parts of a printing block, e.g. woodcut/wood engraving and linocut.
	
intaglio (negative) printing	Printing created by ink covering the sunken parts of a printing plate, e.g. drypoint/engraving, etching.
	
screen-printing	Printing where printing ink is forced through the small holes in a piece of material. A picture or pattern is made by covering some of the holes with a stencil.
wood cut/wood engraving	A print made from a design cut in a block of wood.
linocut	A print made from a design cut into a lino block.
drypoint/engraving	A print made by cutting lines into a metal plate with a needle.
etching	A print made by cutting lines into a metal plate by applying acid.
plate	A sheet of metal or plastic, with an image on it, from which copies are printed.
block	A piece of wood or metal carved or engraved for printing on paper or fabric.
printing press	A machine for printing from a plate.

Prints



Pine Barrens Tree Frog
Warhol (1983)
Screen-print



Self-portrait in a cap, wide-eyed and open-mouthed
Rembrandt (c.1630)
Etching and drypoint



South Wind, Clear Sky
Hokusai (c.1830-1832)
Woodcut

Knowledge Organiser – PSHE – Being Me in My World - Year Six

Vocabulary	
Maslow's hierarchy of human needs	The most fundamental needs at the bottom and the need for self-actualization and self-transcendence at the top.
Empathy	The ability to understand and share the feelings of another.
Collaboration	The action of working with someone to produce something.
Legal	Relating to the law. 'A legal requirement'.
Illegal	Contrary to or forbidden by law, especially criminal law.
Lawful	Conforming to, permitted by, or recognised by law or rules.
Democracy	Rule by the people.



Learning Objectives	
PSHE	I can explain how my choices can have an impact on people in my immediate community and globally.
Social & Emotional	I can empathise with others in my community and globally and explain how this can influence the choices I make.



Being Me in My World
Maslow's Triangle - PowerPoint Slide 1 - Ages 10-11 - Piece 3



Reflective Questions
Ask me this...
What is your ambition for when you leave school?
How do you feel about some of your needs being met and some of them not yet being met? Do you have a choice in how you respond to this?
Which are the six most important rights you would like us to all share at our school?