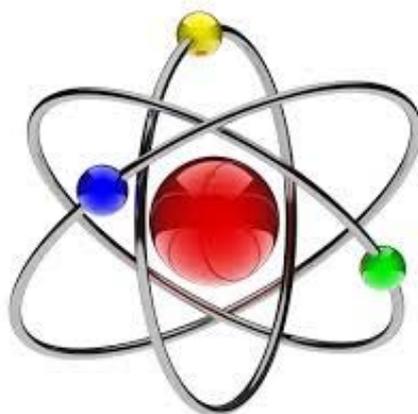


Department of Science



Year 9 GCSE Transition Assessment

Revision list

Topic	Content	Kerboodle.com page references	Other useful websites
Plant, animal and specialised cells & transports between and within cells	<ul style="list-style-type: none"> • Know the organelles in plant and animal cells and be able to label diagrams/recognise these on diagrams • Adaptations of specialised cells • Know the process of transport and definition for active transport, diffusion and osmosis 	P32 – 44 LES	https://www.youtube.com/watch?v=GuY0n7-zfds https://www.youtube.com/watch?v=EAoel2gXBRg https://www.youtube.com/watch?v=UZwT-Jx8LzY https://www.youtube.com/watch?v=qqe2NhQt8bY
The respiratory & circulatory systems of the body	<ul style="list-style-type: none"> • Recognise and label parts of the breathing system and understand gas exchange • Linking between the respiratory and circulatory systems • How body systems are adapted for their function 	P80 – 88 LES	https://www.youtube.com/watch?v=ZKAaDbTP6Dc https://www.youtube.com/watch?v=Ehg4FT8wr2Q https://www.youtube.com/watch?v=aPUPfzsqDgs https://www.youtube.com/watch?v=bpYaKM2hVFY https://www.youtube.com/watch?v=blyC19pXmhs https://www.youtube.com/watch?v=Keiv7A36ws
Separation methods in Chemistry	<ul style="list-style-type: none"> • Explain and interpret different separation methods including chromatography, filtration, distillation, evaporation • Identify experimental errors in separation methods • Use, interpret and calculate R_f values from chromatograms 	P122 – 124 LES	https://www.youtube.com/watch?v=-XCPPB-sBFU https://www.youtube.com/watch?v=P8i4QYncQxl
The reactions and properties of acids	<ul style="list-style-type: none"> • Understand the pH scale and describe acids and alkalis using the pH number • Understand what causes acidity and alkalinity • Recognise reaction types involving acids, alkalis and bases 	P128 – 138 PS	https://www.youtube.com/watch?v=wmhOttrolrw https://www.youtube.com/watch?v=QISsle_jSQ8

	<ul style="list-style-type: none"> • Predict the products of chemical reactions involving acids • Describe how indicators can be used to identify the acidity / alkalinity of solutions • Explain the advantages and disadvantages of different indicators 		
Chemical formula and notation	<ul style="list-style-type: none"> • Understand how scientists write chemical formulae and what the numbers mean • Recognise elements in terms of type and number in a chemical formula 	P16 – 24 PS	https://www.youtube.com/watch?v=dxY3svHNu4M https://www.youtube.com/watch?v=vxCyzR6uETs
Structure and bonding in chemistry	<ul style="list-style-type: none"> • Can describe the atomic model including sub-atomic charges and masses • Identify and draw ions from the periodic table and their atomic number • Know what the atomic number and atomic mass represent • Make appropriate conclusions and observation from a symbol and word equation including (s), (l) and (g) annotations • Write word equations and balanced symbol equations from chemical reactions • Describe and explain the properties of simple molecules and ionic compounds 	P54 – 64 PS	https://www.youtube.com/watch?v=Biq-e9hsbil&list=PL9louNCPbCxXmFgiKCM60Sglh-qOG_vIE
Forces and motion	<ul style="list-style-type: none"> • Interpret force diagrams and describe and explain the motion of an object 	P84 -92 PS	https://www.youtube.com/watch?v=OijJ4EtTBi0

	<ul style="list-style-type: none"> • Calculate the resultant forces acting on an object including its magnitude and direction 		
Magnetism and electromagnetism	<ul style="list-style-type: none"> • Identify materials that are magnetic • Describe a method to view the magnetic field lines from a bar magnet • Draw correctly the magnetic fields in a bar magnet, a solenoid and a straight wire carrying a current. 	P72 – 74 PS	https://www.youtube.com/watch?v=wBdzoePJPe0 https://www.youtube.com/watch?v=mnigg3MGsIY
Working Scientifically including mathematical skills	<ul style="list-style-type: none"> • Draw accurately, line graphs from given data • Describe patterns and/or relationships from graphical data • Make suitable calculations using equations from biology, chemistry and physics • Use graphical data to make appropriate predictions 	P261 – 264 PS P305 – 308 LES	https://www.youtube.com/watch?v=n2YkbdNORp8

Key for the book type on Kerboodle.com

LES – Life and environmental sciences textbook

PS – Physical science textbook