

Science work – Year 9

The tasks to work through each week from your CGP guide and workbook from June 15th until the end of the summer term are given below. You will also have a short Educake test and additional online resources to help you will be available via the science home learning page on the academy website. The additional resources will be updated frequently.

Groups: 9SSAngelou / 9SSBoyle / 9SSCurie / 9SNAngelou / 9SNBoyle / 9SNCurie

Week	Topic	CGP Guide pages	Workbook pages	Additional resources
15/6/20	P4 Atomic structure -Atoms and equations	p.195-197	p.204-208	Alpha Decay Beta Decay Radioactive Decay Video
	Task Instructions: <ol style="list-style-type: none"> 1. Explain how the model of the atom has developed and explain the atomic model. 2. Explain what isotopes are and compare the 3 main types of nuclear radiation. 3. Complete the workbook questions. Practice the nuclear equations on page 197 and workbook questions. 			
22/06/20	P4 Atomic structure – Half-life	p.198-199	p.209-211	Half Life Half Life Video
	Task Instructions: <ol style="list-style-type: none"> 1. Summarise page 198 and practice the examples. 2. Practice plotting a sketch graph on paper of the example on page 198 and complete the workbook questions. 3. Produce a safety poster on irradiation and contamination (p199) and explain how we can protect ourselves. 			
29/06/20	C4 Chemical change – solutions, acids and bases	p.128-129	p.130-131	https://www.youtube.com/watch?v= gYBzqgrmE
	Task Instructions: <ol style="list-style-type: none"> 1. Define concentration and complete the practice examples on page 128. 2. State and memorise the formula for concentration 3. Explain what the difference is between an acid and base and how they interact to neutralise each other. 4. Complete the workbook questions. 			
6/07/20	C4 Chemical change reactions with acids and reactivity series	p.130-131	p.132-134	https://phet.colorado.edu/sims/html/concentration/latest/concentration_en.html
	Task Instructions: <ol style="list-style-type: none"> 1. Explain the difference between a strong acid and high concentration. 2. Explain what pH is. 3. Give the general equations for reactions with acids on page 131. 4. Give lots of examples of reactions with acids for practice with both the word and symbol equation. 5. Complete workbook questions. 			
13/07/20	C4 Reactivity series, separating metals, redox and electrolysis	p.132-136	p.134-138	
	Task Instructions: <ol style="list-style-type: none"> 1. List the reactivity series regarding metal reactivity. 2. Explain and give examples of a redox reactions. 3. Draw a diagram of electrolysis giving annotated explanations of how it works. 4. Include an example, complete workbook questions if this is complete. 			

Groups: 9NSDahl, 9NSEuclid, 9NSFermat, 9SSDahl, 9SSEuclid, 9SSGolding

Week	Topic	CGP Guide pages	Workbook pages	
15/6/20	P4 Atomic structure - Atoms and equations	p.197-198	p.177-178	Alpha Decay Beta Decay Radioactive Decay Video
	Task Instructions: <ol style="list-style-type: none"> 1. Explain and draw a diagram of the current model of the atom. 2. Explain what isotopes are and compare the 3 main types of nuclear radiation. 3. Complete the workbook questions. 4. Practice the nuclear equations on page 199 and workbook questions. 			
22/06/20	P4 Atomic structure – Half-life	p.199-201	p.179-181	Half Life Half Life Video
	Task Instructions: <ol style="list-style-type: none"> 1. Summarise page 200 and practice the examples. 2. Practice plotting a sketch graph on paper of the example on page 200 and complete the workbook questions. 3. Produce a safety poster on irradiation and contamination (p201) and explain how we can protect ourselves. 			
29/06/20	C4 Chemical change – solutions, acids and bases	p.128-129	p.112-113	https://www.bbc.co.uk/bitesize/topics/zt6ppbk
	Task Instructions: <ol style="list-style-type: none"> 1. Define concentration and complete the practice examples on page 129. 2. State and memorise the formula for concentration 3. Explain what the difference is between an acid and base and how they interact to neutralise each other. 4. Complete the workbook questions. 			
6/07/20	C4 Chemical change reactions with acids and reactivity series	p.130-131	p.115-116	https://www.bbc.co.uk/bitesize/topics/zt6ppbk
	Task Instructions: <ol style="list-style-type: none"> 1. Explain the difference between a strong acid and high concentration. 2. Explain what pH is. Give the general equations for reactions with acids on page 131. 3. Give lots of examples of reactions with acids for practice with both the word and symbol equation. 4. Complete workbook questions. 			
13/07/20	C4 Reactivity series, separating metals, redox and electrolysis	p.132-133	p.117	https://www.bbc.co.uk/bitesize/guides/z9h9v9q/video
	Task Instructions: <ol style="list-style-type: none"> 1. List the reactivity series regarding metal reactivity. 2. Explain and give examples of a redox reactions. 3. Draw a diagram of electrolysis giving annotated explanations of how it works. 4. Include an example, complete workbook questions if this is complete. 			