

Higher Physics Weekly Scheme of Work

Week in Year	Week in Unit	Date	Unit	Topic	Sub Topic	Resources
1	1	13/08/2020	ODU	Motion equations & Graphs	Properties of motion, motion-time graphs	Leckie Higher Physics Student Book Leckie Higher Physics Revision Guide Google Classroom
2	2	20/08/2020	ODU	Motion equations & Graphs	Motion-time graphs, the equations of motion	See Week 1
3	3	27/08/2020	ODU	Force, energy & power	Forces in one dimension, Forces in two dimensions	See Week 1
4	4	03/09/2020	ODU	Force, energy & power	Energy & power	See Week 1
5	5	10/09/2020	ODU	Collision, explosions & impulses	Momentum, conservation of momentum	See Week 1
6	6	17/09/2020	ODU	Collision, explosions & impulses	Conservation of momentum, impulse	See Week 1
7	7	24/09/2020	ODU	Gravitation	Horizontally launched projectiles, oblique projectiles	See Week 1
-	-	25/09/2020		September Weekend	Start	
-	-	29/09/2020		September Weekend	End	
-	-	30/09/2020	ODU	Test	Test on all topics covered up to now	See Week 1 SQA Past Papers
8	8	01/10/2020	ODU	Gravitation/Special relativity	Newton's second law of gravitation, gravitation & the universe, Galilean invariance & Newtonian relativity	See Week 1
9	9	08/10/2020	ODU	Special relativity/The expanding universe	Galilean invariance & Newtonian relativity, special relativity, the doppler effect, Hubble's law	See Week 1
		12/10/2020		Mid-term holiday	Start	
10		15/10/2020				
		17/10/2020		Mid-term holiday	End	
11	10	22/10/2020	ODU	The expanding universe/revision	Expansion of the universe/revision	See Week 1
12	11	29/10/2020	ODU	Test	Full Unit	See Week 1 SQA Past Papers
13	1	05/11/2020	E	Monitoring & measuring AC	Alternating current, measuring & monitoring AC	See Week 1
14	2	12/11/2020	E	Current, potential difference, power & resistance	Circuits revision, the potential divider	See Week 1
15	3	19/11/2020	E	Electrical source & internal resistance	Sources of electricity, internal resistance	See Week 1
16	4	26/11/2020	E	Capacitors	Defining capacitance, energy storage, Capacitors in AC circuits, practical applications	See Week 1
17	5	03/12/2020	E	Semiconductors and p-n junctions	Conductors, insulators & semi-conductors, the p-n junction, the LED	See Week 1
18	6	10/12/2020	E	Test	Full Unit/Revision	See Week 1 SQA Past Papers
19	7	17/12/2020	E	Prelim	Unit 1 & 2	See Week 1 SQA Past Papers
20	-	24/12/2020		Winter break	Start	
21	-	31/12/2020				
-	-	05/01/2021		Winter break	End	
22	8	07/01/2021	Assignment	Experimental physics	Experimental method, collecting & interpreting experimental data, uncertainties	See Week 1
23	9	14/01/2021	Assignment	Internal resistance of a battery (TBC)	Research stage	See Week 1
24	10	21/01/2021	Assignment	Internal resistance of a battery (TBC)	Report stage, revision	See Week 1
25	1	28/01/2021	P&W	Forces on charged particles	Force fields, electric fields	See Week 1
26	2	04/02/2021	P&W	Forces on charged particles	Moving charges and magnetic fields, particle accelerators	See Week 1
-	-	06/02/2021		Mid-term holiday	Start	
-	-	09/02/2021		Mid-term holiday	End	
27	3	11/02/2021	P&W	The standard model	Orders of magnitude, the standard model, particle facts, the neutrino, Hadrons	See Week 1
28	4	18/02/2021	P&W	Nuclear reactions	Model of the atom, nuclear fission, nuclear fusion	See Week 1
29	5	25/02/2021	P&W	Inverse square law	Irradiance, inverse square law	See Week 1
30	6	04/03/2021	P&W	Wave-particle duality	Quantum theory of light, the photoelectric effect	See Week 1
31	7	11/03/2021	P&W	Interference	Review of waves, interference of waves	See Week 1
32	8	18/03/2021	P&W	Refraction of light	Emission spectra, absorption spectra	See Week 1
33	9	25/03/2021	P&W	Refraction of light	The model of the atom, bohr model of the atom, photon emission & absorption	See Week 1
34	9	01/04/2021	P&W	Test(TBC)	Unit 3	See Week 1 SQA Past Papers
-	-	02/04/2021		April Holiday	Start	
35	10	08/04/2021		Easter School	Revision of Unit 1, 2 & 3	See Week 1 SQA Past Papers
36	11	15/04/2021		Easter School	Past papers workshop	See Week 1 SQA Past Papers
		17/04/2021		April Holiday	End	
37	12	22/04/2021	P&W	Test(TBC)/Revision for exam	Either will have Unit 3 test before April holidays or after. If before this will be used for exam revision.	See Week 1 SQA Past Papers
38	1	29/04/2021		Revision	Past papers workshop	See Week 1 SQA Past Papers
		03/05/2021		May day/Ramadan/Eid holiday	Start	
39	2	06/05/2021				
40	3	13/05/2021		Exam Week	Exam week	
		15/05/2021			End	
41		20/05/2021				
42		27/05/2021				
43		03/06/2021				
44		10/06/2021				
45		17/06/2021				
46		24/06/2021				