



2021 Physics

National 5

The following table provides information on each question including: Course content being assessed, Skills assessed (see Physics Understanding Standards materials for a definition of each code); Maximum Mark; A-type marks.

Question	Part	Course content	Skills assessed	Maximum Mark	A-type marks
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Section 1

1		Dynamics - Vectors and scalars	K1	1	
2		Dynamics - Newton's laws	K2	1	
3		Dynamics - Newton's laws	K3	1	1
4		Dynamics - skills	S4	1	1
5		Dynamics - Projectile motion	S6	1	
6		Space - Space exploration	K1	1	
7		Space - Space exploration	S4	1	
8		Space - Cosmology	S4	1	1
9		Space - Cosmology	S6	1	
10		Electricity - Electrical charge carriers	K3	1	1
11		Electricity - Electrical charge carriers	S2	1	
12		Electricity - Ohm's Law	S4	1	1
13		Electricity - Practical electrical and electronic circuits	S1	1	
14		Properties of matter - Specific latent heat	S6	1	
15		Properties of matter - Specific latent heat	K3	1	
16		Properties of matter - Gas laws and the kinetic model	S4	1	1
17		Properties of matter - Gas laws and the kinetic model	K2	1	
18		Properties of matter - Gas laws and the kinetic model	S4	1	
19		Waves - Wave parameters and behaviours	K3	1	
20		Waves - Refraction of light	K1	1	
21		Waves - Refraction of light	K1	1	
22		Radiation - Nuclear radiation	S6	1	
23		Radiation - Nuclear radiation	K2	1	
24		Radiation - Nuclear radiation	S6	1	1
25		Radiation - Nuclear radiation	K3	1	

Section 2

1	(a)(i)	Dynamics - Vectors and scalars	K3	3	
	(a)(ii)	Dynamics - Vectors and scalars	K1	1	
	(b)(i)	Dynamics - Acceleration	K3	3	
	(b)(ii)	Dynamics - Velocity-time graphs	S4	3	
	(c)	Dynamics - Vectors and scalars	S4	2	2
2	(a)(i)	Dynamics - Acceleration	S1	1	
	(a)(ii)	Dynamics - Acceleration	S1	3	1
	(b)	Dynamics - Newton's laws	S6	2	2
	(c)	Dynamics - Energy	K1	1	
3	(a)	Waves - Wave parameters and behaviours	K3	2	
	(b)(i)	Electricity - Electrical power	K3	3	

	(b)(ii)	Dynamics - Energy	K2	1	
	(c)	Dynamics - Energy	K3	3	
4	(a)	Space - Space exploration	K1	1	
	(b)	Space - Space exploration	S6	2	1
	(c)	Space - Space exploration	K2	2	2
	(d)(i)	Dynamics - Energy	K3	3	
	(d)(ii)	Space - Space exploration	K2	2	1
	(e)	Waves - Wave parameters and behaviours	K3	3	1
5		Space	K2	3	2
6	(a)(i)	Electricity - Electrical power	K1	1	
	(a)(ii)	Electricity - Ohm's Law	K3	4	3
	(a)(iii)	Electricity - Electrical power	K2	1	1
	(b)	Electricity - Practical electrical and electronic circuits	S6	2	2
7	(a)	Electricity - Ohm's Law	K3	3	
	(b)(i)	Electricity - Practical electrical and electronic circuits	K2	1	1
	(b)(ii)	Electricity - Electrical power	K3	3	
	(b)(iii)	Electricity - Electrical power	S6	1	
8	(a)	Properties of matter - Specific heat capacity	K3	3	
	(b)(i)	Electricity - Practical electrical and electronic circuits	K3	3	
	(b)(ii)	Electricity - Electrical power	K3	3	
	(c)	Properties of matter - Specific heat capacity	S6	2	1
9	(a)	Properties of matter - Gas laws and the kinetic model	K3	2	
	(b)(i)	Properties of matter - Gas laws and the kinetic model	K3	3	2
	(b)(ii)	Properties of matter - Gas laws and the kinetic model	K2	3	2
10		Electricity (+ dynamics)	K2	3	2
11	(a)(i)	Waves - Wave parameters and behaviours	S3	1	
	(a)(ii)	Waves - Wave parameters and behaviours	S3	1	
	(b)	Waves - Wave parameters and behaviours	K3	3	
	(c)(i)	Waves - skills	S3	3	1
	(c)(ii)	Waves - skills	S2	1	
	(c)(iii)	Waves - skills	S7	1	
12	(a)	Radiation - Nuclear radiation	K2	1	1
	(b)(i)	Radiation - Nuclear radiation	K1	1	
	(b)(ii)	Radiation - Nuclear radiation	K3	3	
	(b)(iii)	Radiation - skills	S7	1	1
13	(a)(i)	Radiation - Nuclear radiation	K1	1	
	(a)(ii)	Radiation - Nuclear radiation	K2	2	1
	(b)	Radiation - Nuclear radiation	S4	3	
	(c)(i)	Radiation - Nuclear radiation	K3	4	2
	(c)(ii)	Radiation - units, prefixes, and scientific notation	S4	2	1