2014 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
	(d)	Newton's laws	S4	1	1
			K3	3	2
	(e)	Newton's laws	K2	2	1

Notes

1. This question paper was set pre-2018, and so
i) the total number of mutiple-choice marks is 20 rather than 25
ii) the total number of extended-response marks is 90 rather than 110
iii) the targets for percentages of marks assigned to each skill area differ from those in post-2017 question papers
iv) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.
2. The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

2015 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
Section 1					
1		Practical electrical and electronic circuits	S1	1	
2		Potential difference (voltage)	K1	1	
3		Practical electrical and electronic circuits	K3	1	
4		Electrical power	K3	1	
5		Gas laws and the kinetic model	K2	1	
6		Gas laws and the kinetic model	K3	1	1
7		Wave parameters and behaviours	S4	1	
8		Electromagnetic spectrum	K1	1	
9		Nuclear radiation	K2	1	
10		Nuclear radiation	K2	1	
11		Nuclear radiation	K3	1	
12		Nuclear radiation	K3	1	
13		Nuclear radiation	K1	1	
14		Vectors and scalars	K2	1	
15		Acceleration	S6	1	1
16		Energy	K3	1	1
17		Newton's laws	K2	1	
18		Newton's laws	K2	1	1
19		Cosmology	S4	1	
20		Cosmology	S6	1	
Section 2					
1	(a)	Practical electrical and electronic circuits	S3	3	1
	(b)	Ohm's law	K3	3	
	(c)	Practical electrical and electronic circuits	K2	3	3
2	(a)	Practical electrical and electronic circuits	S6	2	2
	(b)(i)	Electrical power	K3	4	
	(b)(ii)	Electrical charge carriers	K3	3	
3	(a)(i)	Non specific	S4	1	1
	(a)(ii)	Wave parameters and behaviours	K3	3	
			K3	1	1
	(b)	Wave parameters and behaviours	S5	2	1
	(c)(i)	Wave parameters and behaviours	S4	2	
	(c)(ii)	Wave parameters and behaviours	K3	3	
	(d)	Wave parameters and behaviours	S6	2	2
4		Properties of matter	K2	3	2
5	(a)	Refraction of light	K1	1	
	(b)	Refraction of light	K1	1	
	(c)	Refraction of light	S4	1	1
	(d)	Gas laws and the kinetic model	K3	3	
6	(a)	Nuclear radiation	K2	1	
	(b)(i)	Nuclear radiation	K2	3	3
	(b)(ii)	Nuclear radiation	K1	1	
	(b)(iii)	Nuclear radiation	K1	1	
	(c)	Nuclear radiation	S4	1	
7	(a)(i)	Vectors and scalars	S4	2	
	(a)(ii)	Vectors and scalars	S4	2	1
	(a)(iii)	Newton's laws	K3	3	
	(b)	Newton's laws	K2	3	2
8	(a)(i)	Acceleration	S1	3	1
	(a)(ii)	Acceleration	S7	1	1
	(b)	Acceleration	K3	3	
9	(a)	Projectile motion	S3	1	
	(b)(i)	Projectile motion	K3	3	
	(b)(ii)	Projectile motion	K3	1	1
			K3	3	2
	(c)	Projectile motion	K1	1	
10		Space exploration	K2	3	2
11	(a)(i)	Energy	K3	3	
	(a)(ii)	Energy	K2	1	
	(b)(i)	Non specific	S3	3	1
	(b)(ii)	Non specific	S5	1	
	(b)(iii)	Non specific	S7	2	1
	(c)(i)	Non specific	S1	1	
	(c)(ii)	Non specific	S1	2	1

Notes

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ii) the total number of extended-response marks is 90 rather than 110
iii) the targets for percentages of marks assigned to each skill area differ from those in post-2017 question papers
iv) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.
2. The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

2016 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
Section 1					
1		Practical electrical and electronic circuits	K1	1	
2		Potential difference (voltage)	S6	1	
3		Practical electrical and electronic circuits	S4	1	
4		Practical electrical and electronic circuits	K3	1	
5		Gas laws and the kinetic model	K3	1	1
6		Gas laws and the kinetic model	K3	1	
7		Gas laws and the kinetic model	K2	1	1
8		Wave parameters and behaviours	K1	1	
9		Wave parameters and behaviours	S2	1	
10		Wave parameters and behaviours	S4	1	1
11		Refraction of light	S6	1	1
12		Nuclear radiation	K1	1	
13		Nuclear radiation	K1	1	
14		Vectors and scalars	K1	1	
15		Velocity-time graphs	S6	1	
16		Energy	K3	1	1
17		Newton's laws	K2	1	
18		Projectile motion	K3	1	1
19		Specific latent heat	K3	1	
20		Cosmology	K1	1	
Section 2					
1	(a)	Electrical charge carriers	K3	3	
	(b)	Electrical charge carriers	S4	1	1
	(c)	Electrical charge carriers	K2	2	1
2	(a)	Practical electrical and electronic circuits	S1	1	
	(b)	Ohm's law	S1	1	
	(c)	Ohm's law	S6	1	
			K3	3	
	(d)	Ohm's law	S6	1	1
3	(a)	Specific heat capacity	K3	2	
	(b)(i)	Electrical power	K3	3	
	(b)(ii)	Specific heat capacity	K2	1	1
	(c)	Practical electrical and electronic circuits	K2	3	3
4	(a)	Electromagnetic spectrum	K1	1	
	(b)	Electromagnetic spectrum	K1	1	
	(c)(i)	Electromagnetic spectrum	K3	2	
	(c)(ii)	Electromagnetic spectrum	S6	1	1
5		Waves	K2	3	2
6	(a)(i)	Refraction of light	S3	1	
	(a)(ii)	Refraction of light	S3	1	
	(b)(i)	Refraction of light	S2	1	
	(b)(ii)	Refraction of light	S5	1	
	(c)	Refraction of light	S7	1	
7	(a)	Nuclear radiation	K3	3	
	(b)	Electrical power	S4	2	2
	(c)	Nuclear radiation	K2	1	
8	(a)(i)	Nuclear radiation	K3	3	
	(a)(ii)	Nuclear radiation	K3	3	
	(b)	Nuclear radiation	S4	3	
9	(a)(i)	Vectors and scalars	S4	2	
	(a)(ii)	Vectors and scalars	S4	2	1
	(b)(i)	Vectors and scalars	K3	3	1
	(b)(ii)	Vectors and scalars	S6	2	2
10	(a)	Acceleration	K3	3	
	(b)	Velocity-time graphs	K3	3	
	(c)	Newton's laws	S3	3	1
11		Dynamics	K2	3	2
12	(a)	Newton's laws	K3	3	
	(b)(i)	Practical electrical and electronic circuits	K1	1	
	(b)(ii)	Non specific	S6	1	1
	(b)(iii)	Electrical power	S4	3	2
	(c)(i)	Newton's laws	S4	1	
	(c)(ii)	Newton's laws	K3	3	2
			S4	1	1
13	(a)	Nuclear radiation	K1	1	
	(b)	Gas laws and the kinetic model	K3	1	
	(c)	Cosmology	K3	3	
	(d)	Cosmology	K2	1	1

Notes

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iv) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.
2. The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

2017 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
Section 1					
1		Energy	S6	1	
2		Electrical charge carriers	K3	1	
3		Ohm's law	S6	1	
4		Practical electrical and electronic circuits	K2	1	
5		Specific heat capacity	S1	1	
6		Gas laws and the kinetic model	K3	1	1
7		Gas laws and the kinetic model	S4	1	
8		Wave parameters and behaviours	K1	1	
9		Wave parameters and behaviours	K3	1	
10		Wave parameters and behaviours	S4	1	1
11		Electromagnetic spectrum	S6	1	
12		Refraction of light	K1	1	
13		Nuclear radiation	K3	1	1
14		Vectors and scalars	K3	1	1
15		Velocity-time graphs	S2	1	1
16		Acceleration	S5	1	
17		Newton's laws	K2	1	
18		Space exploration	K2	1	
19		Specific latent heat	K3	1	1
20		Cosmology	K1	1	
Section 2					
1	(a)(i)	Practical electrical and electronic circuits	K1	1	
	(a)(ii)	Practical electrical and electronic circuits	K1	1	
	(a)(iii)	Electrical power	S6	1	
			K3	3	
	(b)	Electrical charge carriers	K2	1	1
2	2(a)(i)	Ohm's law	K3	1	1
			K3	3	2
	2(a)(ii)	Electrical power	K3	3	
	2(b)(i)	Practical electrical and electronic circuits	K3	3	
	2(b)(ii)	Electrical power	S6	3	2
3	(a)	Gas laws and the kinetic model	K3	3	
	(b)	Gas laws and the kinetic model	K2	3	2
	(c)	Gas laws and the kinetic model	S3	2	1
4	(a)(i)	Wave parameters and behaviours	K3	3	
	(a)(ii)	Wave parameters and behaviours	S7	1	
	(b)	Wave parameters and behaviours	K3	3	
	(c)	Wave parameters and behaviours	S3	2	1
	(d)	Wave parameters and behaviours	K2	1	1
5		Nuclear radiation	K2	3	2
6	(a)	Nuclear radiation	S1	1	
	(b)(i)	Nuclear radiation	S2	1	
	(b)(ii)	Nuclear radiation	S4	2	
	(b)(iii)	Nuclear radiation	S5	1	
	(c)	Nuclear radiation	K3	3	1
7	(a)	Nuclear radiation	K1	1	
	(b)(i)	Nuclear radiation	K2	2	
	(b)(ii)	Electrical power	S4	1	1
			K3	3	2
	(c)	Nuclear radiation	K1	1	
8	(a)	Vectors and scalars	K1	1	
	(b)(i)	Velocity-time graphs	K3	3	
	(b)(ii)	Acceleration	S4	3	2
	(c)	Vectors and scalars	K3	3	
9	(a)	Newton's laws	K2	1	1
	(b)	Newton's laws	K3	3	
	(c)	Newton's laws	S4	1	1
			K3	3	2
10		Dynamics	K2	3	2
11	(a)	Projectile motion	S2	1	
	(b)	Projectile motion	K2	2	1
	(c)	Energy	K3	3	
12	(a)(i)	Electromagnetic spectrum	K1	1	
	(a)(ii)	Cosmology	S4	3	
	(b)(i)	Electromagnetic spectrum	K1	1	
	(b)(ii)	Electromagnetic spectrum	S6	1	

Notes
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2. The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

2018 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
Section 1					
1		Vectors and scalars	K1	1	
2		Vectors and scalars	S4	1	
3		Newton's laws	K2	1	1
4		Energy	K3	1	1
5		Space exploration	K1	1	
6		Space exploration	S6	1	
7		Space exploration	K2	1	
8		Space exploration	S6	1	1
9		Cosmology	S4	1	
10		Cosmology	S6	1	
11		Electrical charge carriers	K1	1	
12		Potential difference (voltage)	S6	1	1
13		Practical electrical and electronic circuits	K2	1	1
14		Practical electrical and electronic circuits	K3	1	
15		Electrical power	K3	1	
16		Specific latent heat	S2	1	
17		Gas laws and the kinetic model	K3	1	1
18		Gas laws and the kinetic model	S4	1	
19		Gas laws and the kinetic model	K3	1	
20		Wave parameters and behaviours	K1	1	
21		Electromagnetic spectrum	K1	1	
22		Non specific	S4	1	
23		Nuclear radiation	K3	1	
24		Nuclear radiation	S4	1	
25		Nuclear radiation	K1	1	
Section 2					
1	(a)(i)(A)	Vectors and scalars	S4	2	
	(a)(i)(B)	Vectors and scalars	S4	2	1
	(a)(ii)	Newton's laws	K3	3	
	(b)	Gas laws and the kinetic model	K2	2	1
2	(a)(i)	Vectors and scalars	S1	1	1
	(a)(ii)	Vectors and scalars	K3	2	
	(a)(iii)	Acceleration	K3	3	2
	(b)	Velocity-time graphs	S4	3	
	(c)	Velocity-time graphs	S3	2	2
3	(a)	Energy	K3	3	
	(b)(i)	Energy	K3	3	
	(b)(ii)	Energy	K2	1	1
	(c)(i)	Projectile motion	S3	1	
	(c)(ii)	Projectile motion	K3	3	
4	(a)(i)	Non specific	S4	1	
	(a)(ii)	Wave parameters and behaviours	K3	3	
	(b)(i)	Space exploration	K2	1	1
	(b)(ii)	Space exploration	K1	1	
5		Space exploration	K2	3	2
6	(a)	Ohm's law	K3	3	
	(b)(i)	Practical electrical and electronic circuits	K1	1	
	(b)(ii)	Practical electrical and electronic circuits	K3	1	1
		Ohm's law	K3	3	2
	(c)	Electrical charge carriers	K3	3	
7		Electricity	K2	3	2
8	(a)(i)	Specific heat capacity	K3	3	
	(a)(ii)	Specific heat capacity	K2	1	1
	(b)	Electrical power	K3	3	2
			K3	1	1
	(c)	Specific latent heat	S1	3	2
9	(a)(i)	Gas laws and the kinetic model	S6	3	2
	(a)(ii)	Gas laws and the kinetic model	K2	3	2
	(a)(iii)	Gas laws and the kinetic model	S5	1	
	(b)	Gas laws and the kinetic model	S7	1	1
			K2	1	1
10	(a)	Wave parameters and behaviours	K3	3	
	(b)(i)	Wave parameters and behaviours	K1	1	
	(b)(ii)	Wave parameters and behaviours	S4	1	
	(b)(iii)	Wave parameters and behaviours	K3	3	
	(a)	Electromagnetic spectrum	K1	1	

2018 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
11	(b)	Wave parameters and behaviours	S4	3	
	(c)(i)(A)	Refraction of light	S3	1	1
	(c)(i)(B)	Refraction of light	S3	1	
	(c)(ii)	Refraction of light	K2	2	2
12	(a)	Nuclear radiation	K1	1	
	(b)	Nuclear radiation	K2	2	1
	(c)(i)	Nuclear radiation	K3	3	
	(c)(ii)	Nuclear radiation	K3	3	
13	(a)(i)	Nuclear radiation	S1	1	1
	(a)(ii)	Nuclear radiation	K1	1	
	(b)(i)	Nuclear radiation	S3	3	1
	(b)(ii)	Nuclear radiation	S2	1	
	(c)(i)	Nuclear radiation	S7	2	1
	(c)(ii)	Nuclear radiation	K3	3	

Note
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2019 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
Section 1					
1		Vectors and scalars	K1	1	
2		Acceleration	K3	1	
3		Acceleration	S4	1	
4		Projectile motion	K3	1	1
5		Cosmology	S6	1	1
6		Space exploration	K1	1	
7		Space exploration	K3	1	1
8		Electrical charge carriers	K3	1	
9		Ohm's law	K3	1	
10		Practical electrical and electronic circuits	S6	1	
11		Practical electrical and electronic circuits	K2	1	1
12		Practical electrical and electronic circuits	S6	1	1
13		Specific latent heat	S2	1	
14		Non specific	S4	1	
15		Gas laws and the kinetic model	K2	1	
16		Gas laws and the kinetic model	K3	1	1
17		Wave parameters and behaviours	S4	1	
18		Wave parameters and behaviours	K3	1	
19		Wave parameters and behaviours	S6	1	
20		Refraction of light	S4	1	
21		Nuclear radiation	S6	1	
22		Nuclear radiation	K3	1	
23		Nuclear radiation	K3	1	1
24		Nuclear radiation	S6	1	
25		Nuclear radiation	S4	1	
Section 2					
1	(a)(i)	Vectors and scalars	S4	2	
	(a)(ii)	Vectors and scalars	S4	2	1
	(b)	Vectors and scalars	K3	3	1
	(c)	Vectors and scalars	K3	2	
			S4	1	1
	(d)	Newton's laws	K2	1	1
2	(a)(i)	Acceleration	K3	2	
	(a)(ii)	Newton's laws	K3	3	
	(a)(iii)(A)	Newton's laws	S4	1	1
	(a)((iii)(B)	Newton's laws	K2	1	
	(b)	Velocity-time graphs	S4	3	
3		Space exploration	K2	3	2
4	(a)	Cosmology	S6	1	
	(b)(i)	Cosmology	K1	1	
	(b)(ii)	Cosmology	S4	3	
	(c)(i)	Space exploration	K2	1	1
	(c)(ii)	Space exploration	K1	1	
5	(a)(i)	Electricity	S3	3	1
	(a)(ii)	Practical electrical and electronic circuits	S6	2	
	(a)(iii)	Electricity	S5	1	
	(a)(iv)	Electricity	S7	1	
	(b)	Practical electrical and electronic circuits	K2	2	2
6	(a)(i)	Practical electrical and electronic circuits	K3	3	
			K3	1	
	(a)(ii)	Electrical power	K3	3	
	(b)(i)	Practical electrical and electronic circuits	K3	4	1
	(b)(ii)	Electrical power	S6	2	1
7	(a)	Electrical power	K3	2	
	(b)(i)	Specific heat capacity	K3	3	
	(b)(ii)	Specific latent heat	S4	1	1
			K3	3	2
	(b)(iii)	Specific heat capacity	K2	1	
8	(a)	Newton's laws	S3	2	1
	(b)	Gas laws and the kinetic model	K3	3	
	(c)(i)	Gas laws and the kinetic model	K3	1	1
			K3	3	2
	(c)(ii)	Gas laws and the kinetic model	K2	3	2
9	(a)	Wave parameters and behaviours	K3	3	
	(b)	Wave parameters and behaviours	K2	2	1
	(c)(i)	Energy	K3	3	

2019 National 5 Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Marks**	**A-type Marks**
	(c)(ii)	Energy	K2	1	1
10	(a)	Electromagnetic spectrum	K1	1	
	(b)	Electromagnetic spectrum	K1	1	
	(c)(i)(A)	Electromagnetic spectrum	K1	1	
	(c)(i)(B)	Electromagnetic spectrum	K1	1	
	(c)(ii)	Electromagnetic spectrum	K1	1	
11	(a)(i)	Refraction of light	S3	2	1
	(a)(ii)	Refraction of light	K1	1	
	(a)(iii)	Refraction of light	S3	1	
	(b)	Refraction of light	K2	2	1
12	(a)	Nuclear radiation	S1	3	2
	(b)	Nuclear radiation	S7	1	1
	(c)(i)	Nuclear radiation	K3	3	
	(c)(ii)	Nuclear radiation	K3	3	
	(d)	Nuclear radiation	K2	2	2
13	OEQ	Radiation	K2	3	2

Note
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8	(a)	Electrical power	K3	3	
	(b)(i)	Specific heat capacity	K3	4	1
	(b)(ii)	Specific heat capacity	K2	1	
9	(a)	Gas laws and the kinetic model	S4	2	
		Gas laws and the kinetic model	S6	1	1
	(b)	Gas laws and the kinetic model	S5	1	
	(c)	Gas laws and the kinetic model	S7	1	
	(d)	Gas laws and the kinetic model	K2	3	1
10	(a)(i)	Wave parameters and behaviours	S4	1	
	(a)(ii)	Wave parameters and behaviours	K3	2	
	(a)(iii)	Wave parameters and behaviours	K3	3	
	(b)	Wave parameters and behaviours	S3	2	1
11	(a)(i)	Refraction of light	K1	1	
	(a)(ii)	Refraction of light	S3	1	1
	(a)(iii)	Refraction of light	K1	1	
	(b)	Electrical power	K3	3	
12	(a)(i)	Waves	S6	1	
	(a)(ii)	Waves	S5	2	1
	(b)	Non specific	K2	3	2
13	(a)	Nuclear radiation	K2	2	1
	(b)(i)	Nuclear radiation	S6	1	
	(b)(ii)	Nuclear radiation	S6	2	1
	(c)	Nuclear radiation	K3	4	2
14	(a)	Nuclear radiation	K1	1	
	(b)(i)	Electrical power	K3	2	
		Nuclear radiation	S4	2	2
	(b)(ii)	Nuclear radiation	K2	1	1

Note
The assignment was not part of the course assessment in this year.