

Triple Pathway

P1			
Lesson number	Spec code	our spec code	lesson title
1	4.1.1.1	P1.1	Energy stores and systems
2	4.1.1.2	P1.2	Kinetic energy
3	4.1.1.2	P1.3	EPE
4	4.1.1.2	P1.4	GPE
5	4.1.1.3	P1.5	SHC
6	4.1.1.3	P1.6	RP 1
7	4.1.1.3	P1.7	RP 1
8	4.1.1.4	P1.8	Work Done
9	4.5.2.1	P1.9	Work done and energy transfer
10	4.1.1.4	P1.10	Power
11	4.1.2.1	P1.11	Conservation and dissipation of energy
12	4.1.2.1	P1.12	RP 2
13	4.1.2.1	P1.13	RP 2
14	4.1.2.2	P1.14	Efficiency
15	4.1.3.1	P1.15	Energy resources
16		P1.16	Revision: energy transfers & stores
17		P1.17	Revision : EPE, GPE, & KE
18		P1.18	Revision: SHC & RP 1
19		P1.19	test
20		P1.20	check point lesson

P2			
Lesson number	Spec code	our spec code	lesson title
1	4.2.1.1	P2.1	Circuit diagrams and symbols
2	4.2.1.3	P2.2	Current, Resistance and Potential Difference
3	4.2.1.2	P2.3	Electrical charge and current
4	4.2.1.4	P2.4	Resistance and Ohms law
5	4.2.1.3	P2.5	RP 3
6	4.2.1.3	P2.6	RP 3
7	4.2.1.4	P2.7	Charateristic curves
8	4.2.1.4	P2.8	RP 4
9	4.2.1.4	P2.9	RP 4
10	4.2.2.1	P2.10	Series circuits
11	4.2.2.1	P2.11	Parallel Circuits
12	4.2.3.1	P2.12	AC and DC
13	4.2.3.2	P2.13	Mains electricity (3 pin plug)
14	4.2.4.1	P2.14	Power ( $p=vi$ , $p=i^2r$ )
15	4.2.4.2	P2.15	Energy transfers
16	4.2.4.3	P2.16	National grid
17	4.2.5.1	P2.17	Static Charge
18	4.2.5.2	P2.18	Electrical fields
19		P1.19	test

20		P1.20	check point lesson
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P3			
Lesson number	Spec code	our spec code	lesson title
1	4.3.1.1	P3.1	density of materials
2	4.3.1.1	P3.2	RP 5
3	4.3.1.1	P3.3	RP 5
4	4.3.1.2&4	P3.4	Changes of state and kinetic theory
5	4.3.2.3	P3.5	Specific latent heat
6	4.3.3.1	P3.6	Particle motion in gas
7	4.3.3.2	P3.7	Pressure in gases
8	4.4.1.1 & 3	P3.8	The structure of an atom and development of the model of the atom
9	4.4.1.2	P3.9	Mass number, atomic number and Isotopes
10	4.4.2.1	P3.10	Radioactive decay and nuclear radiation
11	4.4.2.2	P3.11	Nuclear equations
12	4.4.2.3	P3.12	Half lives and the random nature...
13	4.4.2.4	P3.13	Radioactive contamination
14	4.4.3.1	P3.14	Background radiation
15	4.4.3.3	P3.15	uses of nuclear radiation
16	4.4.4.1 &	P3.16	Nuclear Fission and fusion
17		P3.17	Revision: Density and RP 5
18		P3.18	Revision: Specific latent heat & particle motion in gas
19		P3.19	test
20		P3.20	check point lesson

P4			
Lesson number	Spec code	our spec code	lesson title
1	4.6.1.1	P4.1	Transverse and Longitudinal
2	4.6.1.2	P4.2	Properties of waves
3	4.6.1.2	P4.3	RP 8
4	4.6.1.3	P4.4	Reflection of waves
5	4.6.1.3	P4.5	RP 9
6	4.6.1.4	P4.6	Sound waves
7	4.6.1.5	P4.7	Waves for detection and exploration
8	4.6.2.1	P4.8	Types of EM waves
9	4.6.2.2 &	P4.9	Properties of EM waves
10	4.6.2.3	P4.10	RP 10
11	4.6.2.3	P4.11	RP 10
12	4.6.2.4	P4.12	Uses and applications of electromagnetic waves
13	4.6.2.5	P4.13	Lenses
14	4.6.2.6	P4.14	Visible light
15	4.6.3.1 & 2	P4.15	Emission and absorption of infrared radiation and black body radiation.
16	4.5.3.1	P4.16	Forces and elasticity

17	4.5.3.1	P4.17	RP 6
18	4.5.3.1	P4.18	RP 6
19		P4.19	test
20		P4.20	check point lesson

P5			
Lesson number	Spec code	our spec code	lesson title
1	4.5.1.1	P6.1	Scalar and vector quantities
2	4.5.1.2	P6.2	Contact and non-contact forces
3	4.5.1.3	P6.3	gravity
4	4.5.1.4	P6.4	resultant forces
5	4.5.1.4	P6.5	Parallelogram of forces
6	4.5.1.4	P6.6	Resolution of forces
7	4.5.6.1.1	P6.7	distance and displacement
8	4.5.6.2.2	P6.8	speed
9	4.5.6.2.3	P6.9	speed
10	4.5.6.1.3	P6.10	velocity
11	4.5.6.1.5	P6.11	acceleration
12	4.5.6.1.5	P6.12	acceleration
13	4.5.6.2.1	P6.13	newtons first law
14	4.5.6.2.2	P6.14	newtons second law
15	4.5.6.2.2	P6.15	RP 7
16	4.5.6.2.3	P6.16	newtons third law
17	4.5.6.3.1	P6.17	Stopping distance and reaction time
18	4.5.6.3.3	P6.18	factors effectng stopping distance
19		P6.19	test
20		P6.20	check point lesson

P6			
Lesson number	Spec code	our spec code	lesson title
1	4.5.4.1	P7.1	Moments levers and gears
2	4.5.5.1	P7.2	pressure in a liquid 1
3	4.5.5.2	P7.3	pressure in a liquid 2
4	4.5.5.3	P7.4	atmospheric pressure
5	4.5.7.1	P7.5	momentum
6	4.5.7.2	P7.6	conservation of momentum
7	4.5.7.3	P7.7	Changes in momentum
8	4.7.1.1 &	P7.8	poles of a magnet & magnetic fields
9	4.7.2.1	P7.9	electromagnetism
10	4.7.2.2 &	P7.10	flemmings left hand rule & electric motors
11	4.7.2.4	P7.11	loudspeakers
12	4.7.3.1	P7.12	induced potential
13	4.7.3.2 &	P7.13	uses of the generator effect & microphones
14	4.7.3.4	P7.14	transformers
15	4.8.1.1 &	P7.15	our solar system & life cycle of a star

16	4.8.1.3	P7.16	Orbital motion, natural and artificial satellites
17	4.8.1.4	P7.17	red shift
18		P7.18	revision
19		P7.19	test
20		P7.20	check point lesson

## Double pathway

P1			
Lesson number	Spec code	our spec code	lesson title
1	4.1.1.1	P1.1	Energy stores and systems
2	4.1.1.2	P1.2	Kinetic energy
3	4.1.1.2	P1.3	EPE
4	4.1.1.2	P1.4	GPE
5	4.1.1.3	P1.5	SHC
6	4.1.1.3	P1.6	RP 1
7	4.1.1.3	P1.7	RP 1
8	4.1.1.4	P1.8	Work Done
9	4.5.2.1	P1.9	Work done and energy transfer
10	4.1.1.4	P1.10	Power
11	4.1.2.1	P1.11	Conservation and dissipation of energy
12	4.1.2.2	P1.14	Efficiency
13	4.1.3.1	P1.15	Energy resources
14		P1.16	Revision: energy transfers & stores
15		P1.17	Revision : EPE, GPE, & KE
16		P1.18	Revision: SHC & RP 1
17		P1.21	Revision : renewable energy sources
18		P1.22	Revision: conservation of energy & efficiency
19		P1.19	test
20		P1.20	check point lesson

P2			
Lesson number	Spec code	our spec code	lesson title
1	4.2.1.1	P2.1	Circuit diagrams and symbols
2	4.2.1.3	P2.2	Current, Resistance and Potential Difference
3	4.2.1.2	P2.3	Electrical charge and current
4	4.2.1.4	P2.4	Resistance and Ohms law
5	4.2.1.3	P2.5	RP 3
6	4.2.1.3	P2.6	RP 3
7	4.2.1.4	P2.7	Charateristic curves
8	4.2.1.4	P2.8	RP 4
9	4.2.1.4	P2.9	RP 4
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12	4.2.3.1	P2.12	AC and DC
13	4.2.3.2	P2.13	Mains electricity (3 pin plug)
14	4.2.4.1	P2.14	Power ( $p=vi$ , $p=i^2r$ )
15	4.2.4.2	P2.15	Energy transfers
16	4.2.4.3	P2.16	National grid
17		P2.21	Revision: Electricity circuit calculations
18		P2.22	Revision: characteristic curves
19		P1.19	test

20		P1.20	check point lesson
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1	4.3.1.1	P3.1	density of materials
2	4.3.1.1	P3.2	RP 5
3	4.3.1.1	P3.3	RP 5
4	4.3.1.2&	P3.4	Changes of state and kinetic theory
5	4.3.2.3	P3.5	Specific latent heat
6	4.3.3.1	P3.6	Particle motion in gas
7	4.4.1.1 & 3	P3.8	The structure of an atom and development of the model of the atom
8	4.4.1.2	P3.9	Mass number, atomic number and Isotopes
9	4.4.2.1	P3.10	Radioactive decay and nuclear radiation
10	4.4.2.2	P3.11	Nuclear equations
11	4.4.2.3	P3.12	Half lives and the random nature...
12	4.4.2.4	P3.13	Radioactive contamination
13		P3.17	Revision: Density and RP 5
14		P3.18	Revision: Specific latent heat & particle motion in gas
15		P3.21	Revision: Development of model of atom & 3 types of
16		P3.22	Revision: Half lives & safety
17		P3.23	Revision: Nuclear equations and half life model
18		P3.24	Revision: AC DC mains electricity
19		P3.19	test
20		P3.20	check point lesson

P4			
Lesson number	Spec code	our spec code	lesson title
1	4.6.1.1	P4.1	Transverse and Longitudinal
2	4.6.1.2	P4.2	Properties of waves
3	4.6.1.2	P4.3	RP 8
4	4.6.2.1	P4.8	Types of EM waves
5	4.6.2.2	P4.9	Properties of EM waves
6	4.6.2.3	P4.10	RP 10
7	4.6.2.3	P4.11	RP 10
8	4.6.2.4	P4.12	Uses and applications of electromagnetic waves
9	4.6.2.5	P4.13	Lenses
10	4.6.2.6	P4.14	Visible light
11	4.6.3.1	P4.15	Emission and absorption of infrared radiation and
12	4.5.3.1	P4.16	Forces and elasticity
13	4.5.3.1	P4.17	RP 6
14	4.5.3.1	P4.18	RP 6
15		P4.21	Revision: types of wave and properties RP 8
16		P4.22	Revision: EM waves & properties of EM waves

17		P4.23	Revision: Lenses & visible light
18		P4.24	Revision: forces and elasticity & RP6
19		P4.19	test
20		P4.20	check point lesson

P5			
Lesson number	Spec code	our spec code	lesson title
1	4.5.1.1	P6.1	Scalar and vector quantities
2	4.5.1.2	P6.2	Contact and non-contact forces
3	4.5.1.3	P6.3	gravity
4	4.5.1.4	P6.4	resultant forces
5	4.5.1.4	P6.5	Parrallelogram of forces
6	4.5.1.4	P6.6	Reolution of forces
7	4.5.6.1.1	P6.7	distance and displacement
8	4.5.6.2.2	P6.8	speed
9	4.5.6.2.3	P6.9	speed
10	4.5.6.1.3	P6.10	velocity
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18	4.5.6.3.3	P6.18	factors effectng stopping distance
19		P6.19	test
20		P6.20	check point lesson

P6			
Lesson number	Spec code	our spec code	lesson title
1	4.5.7.1	P7.5	momentum
2	4.5.7.2	P7.6	conservation of momentum
3	4.7.1.1	P7.8	poles of a magnet & magnetic fields
4	4.7.2.1	P7.9	electromagnetism
5	4.7.2.2	P7.10	flemmings left hand rule & electric motors
6			Revision
7			Revision
8			Revision
9			Revision
10			Revision
11			Revision
12			Revision
13			Revision
14			Revision
15			Revision

16			Revision
17			Revision
18			Revision
19		P7.19	test
20		P7.20	check point lesson