Scheme of Learning: Waves												
Top	Topic Sequence:											
1		2	/_3	4	5	6	7	8	9	10	11	
Organisation		Electric Circuits	Chemical Changes	Mains Electricity	Quantita Chemis		Electro- Magnetism	Homeostasis & Response	Energy Changes	Ecology	Waves	
Topic Overview:												
car und	ry inforn derstand	nation. Desi ing of mech	gning comfo	ortable and s s. Modern te	afe stru	rade systems. W ctures such as b gies such as imag	ridges, house	es and music	performand	ce halls requ	ires an	
Les	son Sequ	ence:				A VO	- -X"			3 X	7119	
mo ger The sep All Fin	ves on to nerator) en the to parate ph students ally, sepa	o introduce in the first r pic focuses nysicists incl then look i arate physic	the wave ed required praction ray diagruding sound on detail at the cists then loc	quation and a ctical of the ams and the l, ultrasound ne electroma ok in detail a	apply it topic. behavior and seingnetic set the be	ed at KS3 includito both waves in our of light as it smic waves. spectrum includit naviour of light to bsorbs, emits on	water (the meets a boung a required hrough lensor	ripple tank) a ndary. Movir d practical or	nd waves ir ng onto othe n infra red ra	n solids (star er type of wa adiation.	nding wave aves for the	
Sequence of Lessons:						Resources:						
1	Describing a wave				1	Slinky, worksheet – wave diagram						
2	The wave equation				2	Worksheet – the wave equation						
3	Measuring waves RP <i>mid-topic</i> assessment				3	Ripple tank, metre ruler, large sheet of card, signal generator, standing wave equipment, worksheet – RP instructions						
4	Reflection and refraction			4	9, 7							
5		Refraction RP separate physics only		&5	glass/perspex block, A3 paper, protractor, worksheet – RP instructions							
6	Lenses separate physics only			6	Ray box + triple slit, variable power supply, convex lens, concave lens, graph paper							
7	Visible light separate physics only mid-topic assessment			1	Coloured glasses, filters							
8	Sound waves separate physics only			8	Sig gen, loudspeaker and oscilloscope, worksheet – ghostbusters, ear model, worksheet – ear diagram							
9	Ultrasound separate physics only				9	Worksheet – ultrasound calculations						
10	Seismic waves separate physics only				10	n/a						
11	Electromagnetic spectrum				11	Worksheet – e-m spectrum cut and stick						
12	Producing electromagnetic waves				12	n/a						
13	Infra red RP mid-topic assessment			13	Leslie cube, IR detector, kettle, worksheet – RP instructions							
14	Black bodies separate physics only				14	Information sheet – electromagnetic spectrum						
15	Revision			15	n/a							
16	16 Test					n/a						
Sup	portive Re	ading:				74.44			\rightarrow tx			
Comprehension activity TBC												

Multiple choice and short answer questions.

Exam questions based on the skill of calculate

Assessment:

Knowledge:

Application of Knowledge: