

Home learning planning framework

This is the plan for a learning sequence, and won't take place within a single session.

Year group:	11	Topic:	Waves
Subject:	Physics	Area:	Waves, Electromagnetic Waves, and Wave Interactions
Approach	What is it?	Examples (online / offline)—support students to:	
Activate	Prompting students to think about what they have learnt previously, that will help them with their next step	<p>How many different waves can you name? What do you hear when you scream into a cave? Why does that sound different when you scream into a pillow?</p> <p>How do you see? How is a rainbow multiple colours when the light that makes it is white? Can you name a classic rock music album with light bending on it? What is it called when light bends?</p> <p>How do medical staff use waves to check on a person's fetus? What other medical applications are waves used for?</p>	
Explain	Explicitly teaching strategies to pupils and helping them decide when to use them.	<p>When answering mathematical question in physics you will need to follow these steps:</p> <ol style="list-style-type: none"> 1) State what you know from the question. 2) State the equation. 3) Substitute values into the equation. 4) Calculate 	
Practise	Pupils practising strategies and skills repeatedly, to develop independence.	<p>You will need to learn the names of the electromagnetic spectrum.</p> <p>You will need to learn the units for wave velocity, wavelength frequency and time period. You will need to learn the wave velocity equation. Wave velocity = wavelength x frequency. You will need to learn the equation: Frequency = 1 / Time Period</p> <p>Make flash cards and test yourself. You can use cover, write, check to aid recall of material.</p>	
Reflect	Pupils reflecting on what they have learnt after they have completed a piece of work.	<p>Keep track and scores you achieve in testing yourself with the flash cards.</p> <p>Have a friend/parent/carer test you each week and track your progress.</p>	
Review	Revisiting previous learning after a gap	<p>Revisit specific questions you didn't get correct and re-test yourself.</p>	