Unit Title	Waves				
Subject group and discipline	Science	MYP year	2	Unit duration (hrs)	18

Inquiry: Establishing the purpose of the unit

Key concept	Related concept(s)	Global context choose 1 and then drill down to exactly which aspect of these the unit will focus on					
Change	Energy	Fairness and development					
		Human capability and development					
Statement of inquiry							
This needs to be non-subject specific (as far as possible) and connect the key concept, related concepts and Global Contexts							
Energy can be transmitted causing change, this has led to an increase in human capability and development							
Inquiry questions							
How can a person in the UK video call somebody in Australia?							
Factual— What is a shadow?							
What are longitudinal and transv	erse waves?						
why does light grow faint at a dis	stance?						
How do we see and hear things?							
Conceptual— How is a shadow formed?							
How can waves allow us to see t	he unseen?						
How can white light be turned into a rainbow?							
Debatable— How can sound be p	perceived without speakers?						
How does our perception throug	h senses affect our understandin	g?					
If we cannot see it or hear it does that mean that something doesn't exist?							
Objectives	Summative assessment This does not always have to be a GRASPS task but it does need to involve students demonstrating progress by transferring the skills and knowledge they have learnt to a real-life context. An analytical essay or practice exam questions (not quizzes) counts as real life context. Students need to construct a response using the knowledge and skills they practised in the unit.						
<i>Learning objectives for the unit</i> Ai outline scientific knowledge	Outline of summative assessment task(s) including assessment criteria:	Relationship between summative assessment task(s) and statement of inquiry:					
Aiii interpret information to make scientifically supported judgments.	Assessment 1 – plan a practical into finding the best sound proofing material– Bi and Biv	Students will apply their knowledge of waves to real- world uses of waves which have					

Bi outline an appropriate problem or research question to be tested by a scientific investigation	Assessment 2 – speed of a wave practical in water - Cv	played a key role in human capability and development.					
Biv design scientific investigations.	Assessment 3 – GRASPS – all links to phone + choice of part of EM spectrum - Ai and Aiii						
Cv describe improvements or extensions to the method.							
Approaches to learning (ATL) These can be listed or you could offer some explanation of how they will be developed							
Thinking							
Communication							
Social							
Research							
Self management							