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эlа	ценн	ent	OI III	quiry

Using number systems allows us to understand relationships that describe our climate, so we are able to acknowledge human impact on global climate change.

Inquiry questions

Factual	Conceptual	Debatable		
What are negative numbers?	How do you add and subtract integers?	Why do we have directed numbers?		
What is the order of operations?		Why is it important to have order of operations?		

Aims

• To appreciate the international dimension of mathematics through an awareness of the universality of mathematics and its multicultural and historical perspectives.

S	ummati	ve a	asses	sme	nt t	asks
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Summative assessment tasks				
Objectives	Outline of summative assessment tasks	Relate to the statement of inquiry		
A: Knowing and understanding	<u>Unit test</u>			
i) select appropriate mathematics when solving	Teachers can use the Check your knowledge	The unit test will give students the opportunity to		
problems in both familiar and unfamiliar	questions at the end of the chapter as a model to	demonstrate their learning from the unit.		
situations	prepare a unit test. Students will solve problems			
ii) apply the selected mathematics successfully	in both familiar and unfamiliar situations in a			
when solving problems	variety of contexts. Problems will range in			
iii) solve problems correctly in a variety of	difficulty from simple to complex. Problems will			
contexts.	relate to natural numbers, integers and the four			
	operations.			
B: Investigating patterns				
i) select and apply mathematical problem-solving	Investigation 1.1 (page 18)			
techniques to discover complex patterns	In this task, students will research global	The climate change investigation will help		
ii) describe patterns as general rules consistent	temperatures, sea levels and carbon dioxide	students to understand climate change and to		
with findings	emissions. They will then organise their research	communicate and justify their understandings		
iii) prove, or verify and justify, general rules.	logically to communicate what the data shows	using data and appropriate mathematical		
	and justify whether the data makes sense in	representations. Students will specifically look at		