

Curriculum Alignment with CT Standards for Scientific Inquiry, Literacy and Numeracy

GRADE 8 EARTH

Expected Performances	Required Activities	Gravity vs. Distance	Force of Gravity	Mass vs. Weight	Weight Solar System	Seasons	Track the Moon	Moonth of Phases	Moon / Gravity	Tides	Models	Solar Lunar Eclipse
CINQ. 1	Identify questions that can be answered through scientific investigation.					X	X					
CINQ. 2	Read, interpret and examine the credibility of scientific claims in different sources of information.			X						X		X
CINQ. 3	Design and conduct appropriate types of scientific investigations to answer different questions.						X					
CINQ. 4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.							X				
CINQ. 5	Use appropriate tools and techniques to make observations and gather data.					X	X	X	X	X	X	
CINQ. 6	Use mathematical operations to analyze and interpret data.									X	X	
CINQ. 7	Identify and present relationships between variables in appropriate graphs.	X		X	X	X	X			X		
CINQ. 8	Draw conclusions and identify sources of error.						X	X				
CINQ. 9	Provide explanations to investigated problems or questions.		X	X	X	X	X		X			
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.					X	X	X				

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GRADE 8 LIFE

Expected Performances		Required Activities						
		Mitosis	Meiosis	Big Difference	Growing Up	Inheritance	All in the Family	Class Survey
CINQ. 1	Identify questions that can be answered through scientific investigation.					X		X
CINQ. 2	Read, interpret and examine the credibility of scientific claims in different sources of information.			X				
CINQ. 3	Design and conduct appropriate types of scientific investigations to answer different questions.						X	
CINQ. 4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.					X	X	
CINQ. 5	Use appropriate tools and techniques to make observations and gather data.	X	X			X		
CINQ. 6	Use mathematical operations to analyze and interpret data.				X			X
CINQ. 7	Identify and present relationships between variables in appropriate graphs.					X	X	X
CINQ. 8	Draw conclusions and identify sources of error.	X	X	X		X	X	
CINQ. 9	Provide explanations to investigated problems or questions.	X	X		X	X	X	
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.			X				

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GRADE 8 PHYSICAL (8.1)

Expected Performances	Required Activities	Graph	Point of Reference	Measure Speed	Graph Speed	Pisa Drop	1 st Law Magic	Projectiles	Gravity	3 rd Law	2 nd /3 rd Law	Demo Circular Motion	Activity Circular Motion
CINQ. 1	Identify questions that can be answered through scientific investigation.							X					
CINQ. 2	Read, interpret and examine the credibility of scientific claims in different sources of information.											X	
CINQ. 3	Design and conduct appropriate types of scientific investigations to answer different questions.												
CINQ. 4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.			X				X					
CINQ. 5	Use appropriate tools and techniques to make observations and gather data.			X		X	X	X	X	X	X		
CINQ. 6	Use mathematical operations to analyze and interpret data.	X		X	X								
CINQ. 7	Identify and present relationships between variables in appropriate graphs.	X			X				X	X	X		
CINQ. 8	Draw conclusions and identify sources of error.				X			X					X
CINQ. 9	Provide explanations to investigated problems or questions.		X			X	X	X	X	X	X	X	X
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.			X					X	X	X		

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GRADE 8 PHYSICAL (9.2)

Expected Performances	Required Activities	Magnetic Force	Static Charge 1	Static Charge 2	Voltage Lab	Ohm's Law	Current Lab	Resistance	Electro-magnetism	Electric Motor	Electric Generator
CINQ. 1	Identify questions that can be answered through scientific investigation.				X				X		
CINQ. 2	Read, interpret and examine the credibility of scientific claims in different sources of information.			X							
CINQ. 3	Design and conduct appropriate types of scientific investigations to answer different questions.	X			X	X					X
CINQ. 4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.		X			X	X		X	X	X
CINQ. 5	Use appropriate tools and techniques to make observations and gather data.		X		X	X	X	X	X	X	X
CINQ. 6	Use mathematical operations to analyze and interpret data.										
CINQ. 7	Identify and present relationships between variables in appropriate graphs.	X	X					X			
CINQ. 8	Draw conclusions and identify sources of error.	X				X		X	X	X	X
CINQ. 9	Provide explanations to investigated problems or questions.			X	X	X			X	X	X
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.				X		X			X	

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GRADE 8 STS

Expected Performances	Required Activities	Informational Text – Types	Compare and Contrast Types	Design Truss	Scale Model	Destructive Test
CINQ. 1	Identify questions that can be answered through scientific investigation.					X
CINQ. 2	Read, interpret and examine the credibility of scientific claims in different sources of information.	X	X			
CINQ. 3	Design and conduct appropriate types of scientific investigations to answer different questions.					X
CINQ. 4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.					
CINQ. 5	Use appropriate tools and techniques to make observations and gather data.			X	X	X
CINQ. 6	Use mathematical operations to analyze and interpret data.					X
CINQ. 7	Identify and present relationships between variables in appropriate graphs.					
CINQ. 8	Draw conclusions and identify sources of error.					X
CINQ. 9	Provide explanations to investigated problems or questions.					X
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.					X