

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

GRADE 6 EARTH

Expected Performances		Required Activities												
		Temp-a-chur	Food Color	Balloon Bottle	Temp Changes Everything	Moving Molecules	Why Forecast	Weather Data	Hi-Low Pressure	Barometer	Isobars / Isotherms	Create Cloud	Comp. Cloud	Folklore & Forecasting
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.					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.										X		X	
CINQ. 7	Identify and present relationships between variables in appropriate graphs.					X								
CINQ. 8	Draw conclusions and identify sources of error.		X											
CINQ. 9	Provide explanations to investigated problems or questions.			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 6 LIFE

Expected Performances		Required Activities			
		Lights Out	SDI	Math Analyzing Data	Mystery Pellets
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.				
CINQ. 3	Design and conduct appropriate types of scientific investigations to answer different questions.	X	X		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	X
CINQ. 7	Identify and present relationships between variables in appropriate graphs.		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
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.		X		X

SDI – Student Designed Investigation

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GRADE 6 PHYSICAL

Expected Performances		Required Activities								
		Doing Work	Work & Simple Machines	Types of Levers	Friction	Pulley	Types of Pulleys	Inclined Plane	Domestic Simple	Marbles, Ramps, Cups
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			X			
CINQ. 3	Design and conduct appropriate types of scientific investigations to answer different questions.					X		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		X
CINQ. 6	Use mathematical operations to analyze and interpret data.	X	X		X	X		X		X
CINQ. 7	Identify and present relationships between variables in appropriate graphs.									
CINQ. 8	Draw conclusions and identify sources of error.									
CINQ. 9	Provide explanations to investigated problems or questions.		X		X					X
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.		X	X			X		X	X

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GRADE 6 STS

Expected Performances		Required Activities				
		Food-borne illnesses	Optimum conditions	SDI	No more brown bananas	www.howstuffworks.com
CINQ. 1	Identify questions that can be answered through scientific investigation.		X	X	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	X	X	
CINQ. 4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.		X	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	
CINQ. 8	Draw conclusions and identify sources of error.		X			
CINQ. 9	Provide explanations to investigated problems or questions.			X	X	
CINQ. 10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.		X	X	X	X