

TCAP-ACH Grade 6 Science Framework

Inquiry and Technology & Engineering		%	# of Items
		11-14%	7-9
0607.Inq.1	Design a simple experimental procedure with an identified control and appropriate variables.		
0607.Inq.2	Select tools and procedures needed to conduct a moderately complex experiment.		
0607.Inq.3	Interpret and translate data into a table, graph, or diagram.		
0607.Inq.4	Draw a conclusion that establishes a cause and effect relationship supported by evidence.		
0607.Inq.5	Identify a faulty interpretation of data that is due to bias or experimental error.		
0607.T/E.1	Identify the tools and procedures needed to test the design features of a prototype		
0607.T/E.2	Evaluate a protocol to determine if the engineering design process was successfully applied.		
0607.T/E.3	Distinguish between the intended benefits and the unintended consequences of a new technology.		
0607.T/E.4	Differentiate between adaptive and assistive engineered products.		
LS: Interdependence		%	# of Items
		13-17%	8-11
0607.2.1	Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web.		
0607.2.2	Interpret how materials and energy are transferred through an ecosystem.		
0607.2.3	Identify the biotic and abiotic elements of the major biomes.		
0607.2.4	Identify the environmental conditions and interdependencies among organisms found in the major biomes.		
ES 1: The Universe		%	# of Items
		25-33%	16-21
0607.6.1	Use data to draw conclusions about the major components of the universe.		
0607.6.2	Explain how the relative distance of objects from the earth affects how they appear.		
0607.6.3	Distinguish among a day, lunar cycle, and year based on the movements of the earth, sun, and moon.		
0607.6.4	Explain the different phases of the moon using a model of the earth, moon, and sun.		
0607.6.5	Predict the types of tides that occur when the earth and moon occupy various positions.		

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0607.6.6	Use a diagram that shows the positions of the earth and sun to explain the four seasons.	
0607.6.7	Explain the difference between a solar and a lunar eclipse.	

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ES 2: The Atmosphere		%	# of Items
		16-22%	10-14
0607.8.1	Analyze data to identify events associated with heat convection in the atmosphere.		
0607.8.2	Recognize the connection between the sun's energy and the wind.		
0607.8.3	Describe how temperature differences in the ocean account for currents.		
0607.8.4	Interpret meteorological data to make predictions about the weather.		
PS: Energy, Forces in Nature		%	# of Items
		22-30%	14-19
0607.10.1	Distinguish among gravitational potential energy, elastic potential energy, and chemical potential energy.		
0607.10.2	Interpret the relationship between potential and kinetic energy.		
0607.10.3	Recognize that energy can be transformed from one type to another.		
0607.10.4	Explain the Law of Conservation of Energy using data from a variety of energy transformations.		
0607.12.1	Identify how simple circuits are associated with the transfer of electrical energy when heat, light, sound, and chemical changes are produced.		
0607.12.2	Identify materials that can conduct electricity.		