

TCAP-ACH Grade 3 Science Framework

*Inquiry and Technology & Engineering		
	*This is not a separate reporting category. These SPIs are embedded within each RC.	
	The total number of these items is 3-5 with no more than one ITE per RC. The SPIs are listed in each RC.	
LS 1: Cells, Flow of Matter & Energy, Heredity		%
		14-22%
		# of Items
		9-14
0307.1.1	Identify specific parts of a plant and describe their function.	
0307.3.1	Identify the basic needs of plants and animals.	
0307.3.2	Recognize that animals obtain their food by eating plants and other animals.	
0307.4.1	Select an illustration that shows how an organism changes as it develops.	
0307.4.2	Distinguish between characteristics that are transmitted from parents to offspring and those that are not.	
0307.Inq.1	Select an investigation that could be used to answer a specific question.	
0307.T/E.1	Select a tool, technology, or invention that was used to solve a human problem.	
0307.T/E.2	Recognize the connection between a scientific advance and the development of a new tool or technology.	
LS 2: Interdependence, Biodiversity & Change		%
		14-22%
		# of Items
		9-14
0307.2.1	Distinguish between living and non-living things.	
0307.2.2	Determine how plants and animals compete for resources such as food, space, water, air, and shelter.	
0307.5.1	Investigate an organism's characteristics and evaluate how these features enable it to survive in a particular environment.	
0307.5.2	Investigate populations of different organisms and classify them as thriving, threatened, endangered, or extinct.	
0307.5.3	Match the organism with evidence of its prior existence	
0307.Inq.1	Select an investigation that could be used to answer a specific question.	

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0307.T/E.1	Recognize the connection between a scientific advance and the development of a new tool or technology.	
0307.T/E.2	Recognize the connection between a scientific advance and the development of a new tool or technology.	

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ES: The Universe, The Earth, The Atmosphere		%	# of Items
		20-31%	13-20
0307.6.1	Identify the major components of the solar system (i.e., sun, planets and moons).		
0307.7.1	Classify landforms and bodies of water according to their geological features and identify them on a map.		
0307.7.2	Describe how rocks can be classified according to their physical characteristics.		
0307.7.3	Identify an object as natural or man-made.		
0307.7.4	Determine methods for conserving natural resources.		
0307.8.1	Choose the correct tool for measuring a particular atmospheric condition.		
0307.8.2	Match major cloud types with specific atmospheric conditions.		
0307.Inq.1	Select an investigation that could be used to answer a specific question.		
0307.T/E.1	Select a tool, technology, or invention that was used to solve a human problem.		
0307.T/E.2	Recognize the connection between a scientific advance and the development of a new tool or technology.		
PS 1: Matter and Energy		%	# of Items
		11-19%	7-12
0307.9.1	Describe a substance in terms of its physical properties.		
0307.9.2	Identify methods for separating different types of mixtures.		
0307.10.1	Use an illustration to identify various sources of heat energy.		
0307.10.2	Classify materials according to their ability to conduct heat.		
0307.Inq.1	Select an investigation that could be used to answer a specific question.		
0307.T/E.1	Select a tool, technology, or invention that was used to solve a human problem.		
0307.T/E.2	Recognize the connection between a scientific advance and the development of a new tool or technology.		

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PS 2: Motion, Forces in Nature		%	# of Items
		19-28%	12-18
0307.11.1	Identify how the direction of a moving object is changed by an applied force.		
0307.11.2	Demonstrate how changing the mass affects a balanced system.		
0307.11.3	Distinguish between pitch and volume.		
0307.11.4	Identify how sounds with different pitch and volume are produced.		
0307.12.1	Recognize that magnets can move objects without touching them.		
0307.12.2	Identify objects that are attracted to magnets.		
0307.Inq.1	Select an investigation that could be used to answer a specific question.		
0307.T/E.1	Select a tool, technology, or invention that was used to solve a human problem.		
0307.T/E.2	Recognize the connection between a scientific advance and the development of a new tool or technology.		