

Content Standard	Standard Description	Performance Standard	IPS Ch. 1	IPS Ch. 2	IPS Ch. 3	IPS Ch. 4	IPS Ch. 5	IPS Ch. 6	IPS Ch. 7	IPS Ch. 8	IPS Ch. 9	IPS Ch. 10	IPS Ch. 11	IPS Ch. 12	FM&E Ch. 1	FM&E Ch. 2	FM&E Ch. 3	FM&E Ch. 4	FM&E Ch. 5	FM&E Ch. 6	FM&E Ch. 7	
CONTENT STANDARD 11: Structure Of Matter	<i>Students will know the characteristic properties of matter and the relationship of these properties to structure and composition.</i>	<ul style="list-style-type: none"> • give examples which show that changes in pressure, temperature or volume of a gas sample result in predictable changes in either or both of the other properties; and 			X																	
		<ul style="list-style-type: none"> • demonstrate that some properties (such as mass and volume) depend on the amount of material and some properties (such as density, melting point and boiling point) are independent of the amount of material. 	X	X	X																	
CONTENT STANDARD 12: Energy	<i>Students will know that energy is conserved, transferred, transformed, and appears in different forms</i>	<p>Educational experiences in Grades 5 - 8 will assure that students:</p> <ul style="list-style-type: none"> • recognize that energy can neither be created nor destroyed; 																			X	
		<ul style="list-style-type: none"> • identify energy transformations that occur in various systems (e.g., biological, mechanical, geological) and recognize that heat is a by product of energy transformations; 																			X	
		<ul style="list-style-type: none"> • demonstrate that heat can be transferred by convection, conduction and radiation; 																			X	
		<ul style="list-style-type: none"> • recognize that energy exists in many forms (e.g., light, heat, chemical, electrical and mechanical) and that energy can be transformed from one form to another; 																			X	X
		<ul style="list-style-type: none"> • understand that all physical changes, including changes of state, require energy; 		X	X																X	X
		<ul style="list-style-type: none"> • recognize that the sun produces energy in a range of wavelengths within the electromagnetic spectrum; 																				
		<ul style="list-style-type: none"> • compare and contrast different forms of energy in terms of their wavelengths on the electromagnetic spectrum. 																		X		

Content Standard	Standard Description	Performance Standard	IPS	IPS	IPS	IPS	IPS	IPS	IPS	IPS	IPS	IPS	IPS	IPS	IPS	FM&E	FM&E	FM&E	FM&E	FM&E	FM&E	FM&E			
			Ch. 1	Ch. 2	Ch. 3	Ch. 4	Ch. 5	Ch. 6	Ch. 7	Ch. 8	Ch. 9	Ch. 10	Ch. 11	Ch. 12	Ch. 1	Ch. 2	Ch. 3	Ch. 4	Ch. 5	Ch. 6	Ch. 7				
CONTENT STANDARD 14: Science And Technology	<i>Students will understand the relationships among mathematics, science and technology and the way they affect and are affected by society</i>	• describe how people use science and technology in their professions;																							
		• identify and analyze ways in which advances in science and technology have affected each other and society;								X															
		• recognize that issues related to science, technology and society often are complex and involve risk/ benefit tradeoffs;									X														
		• understand that scientific advances may be misused and developed into technologies that have negative consequences;									X														
		• identify technological advances that are reported in the media; and									X												X		
		• understand that engineers, architects and others who engage in design and technology use scientific knowledge to solve practical problems.									X												X		