Introductory Physical Science and Force, Motion, and Energy: Correlation with Washington State Science Physical Science Essential Academic Learning Requirements Grades 6-8 (Rev. 11/20/2002)

Requirements	Essential Academic Learning	Purpose/ Learning Expectation	Performance Indicators	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
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Essential Academic Learning Requirements	Purpose/ Learning Expectation	Performance Indicators	IPS Ch. 1	IPS	IPS	IPS Ch 4	IPS	IPS	IPS	IPS	IPS	IPS	IPS			FM&E Ch. 2				FM&E Ch. 6	
EALR 1: The student understands and uses scientific Concepts and Principles. (WASL PC, SI, CH)	1.2 Systems and Interconnections (SI): Recognize the components, structure, and organization of systems and the interconnections within and among them. (ORANGE)	4. Understand that all matter is made up of atoms, which may be combined in various kinds, ways, and numbers. (WASL SI01 1.2.4)	Cii, I	CII. 2	Cii. 3	CII. 4	Cii. 3	Cii. 0	Cii. 1	X	X	X	X	CII, 12	Cli. I	CII. 2	CII. 3	CII. 4	CII. 3	CII. U	CII. 7
		Physical/Chemical Changes 5. Understand physical and chemical changes at the particle level and know that matter is conserved. (WASL SI01 1.2.5)		X	X	X	X	X	X	X											
	1.3 Changes in Matter and Energy (CH): Understand how interactions within and among systems cause changes in matter and energy. (YELLOW)	Nature of Forces 1. Know the factors that determine the strength of various forces. (WASL CH01 1.3.1)													X	X	X				
		2. Understand the effects of balanced and unbalanced forces on the motion of objects along a straight line. (WASL CH01 1.3.2)															X				
EALR 2: The student knows and uses the Skills and Processes of science and technology. (WASL IP)	2.1 Scientific Inquiry (IQ): Develop abilities necessary to do scientific inquiry. (GREEN)	Questioning 1. Generate questions that can be answered through scientific investigations. (WASL IP01 2.1.1)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Designing and Conducting Investigations 2. Design, conduct, and evaluate scientific investigations, using appropriate equipment, mathematics, and safety procedures. (WASL IP02 2.1.2)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Explanation 3. Use evidence from scientific investigations to think critically and logically to develop descriptions, explanations, and predictions. (WASL IP03 2.1.3)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Essential Academic Learning Requirements	Purpose/ Learning Expectation	Performance Indicators	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
EALR 2: The student knows and uses the Skills and Processes of science and technology. (WASL IP)	2.1 Scientific Inquiry (IQ): Develop abilities necessary to do scientific inquiry. (GREEN)	Modeling 4. Correlate models of the behavior of objects, events, or processes to the behavior of the actual things under investigation; test models by predicting and observing actual behaviors or processes. (WASL IP04 2.1.4)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		5. Communicate scientific procedures, investigations, and explanations orally, in writing, with computer-based technology, and in the language of mathematics. (WASL IP05 2.1.5)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	2.2 Problem Solving (PS): Apply science knowledge and skills to solve problems or meet challenges. (GREEN)	Identifying Problems 1. Identify and examine common, everyday challenges or problems in which science and technology can be or has been used to design solutions. (WASL IP06 2.2.1)																			
		Designing and Testing Solutions 2. Identify, design, and test alternative solutions to a challenge or problem. (WASL IP07 2.2.2)																			
		3. Compare and contrast multiple solutions to a problem or challenge. (WASL IP08 2.2.3)																			
EALR 3: The student understands the Nature and Contexts of science and technology. (WASL NC)	3.1 Nature of Science (NS): Understand the nature of scientific inquiry. (BLUE)	Intellectual Honesty 1. Understand the operational and ethical traditions of science and technology, such as skepticism, cooperation, intellectual honesty, and proprietary discovery. (WASL NC01 3.1.1)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Essential Academic Learning	Purpose/ Learning Expectation	Performance Indicators	IPS		IPS	IPS		IPS	IPS	IPS	IPS	IPS	IPS CL 11	IPS CL 12	FM&E						
Requirements EALR 3: The student understands the Nature and Contexts of science and technology. (WASL NC)	3.1 Nature of Science (NS): Understand the nature of scientific inquiry. (BLUE)	Limitations of Science and Technology 2. Understand why scientific investigation is limited to the natural world. (WASL NC02 3.1.2)	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
		3. Provide more than one explanation for events or phenomena; defend or refute the explanations using evidence (WASL NC03 3.1.3)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Evaluating Methods of Investigations 4. Describe how methods of investigation relate to the validity of scientific experiments, observations, theoretical models, and explanations. (WASL NC04 3.1.4)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Evolution of Scientific Ideas 5. Understand how scientific theory, hypothesis generation, experimentation, and observation are interrelated and may lead to changing ideas. (WASL NC05 3.1.5)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X X	X
	3.2 Science, Technology, and Society (STS): Know that science and technology are human endeavors, interrelated to each other, to society, and to the workplace. (BLUE)	All Peoples Contribute to Science and Technology 1. Know that science and technology have been developed, used, and affected by many diverse individuals, cultures, and societies throughout human history. (WASL NC06 3.2.1 Classroom Based)																			
		Relationship of Science and Technology 2. Compare and contrast scientific inquiry and technological design in terms of activities, results, and influence on individuals and society; understand how science supports technological development and vice versa. (WASL NC07 3.2.2)																			

Essential Academic Learning	Purpose/ Learning Expectation	Performance Indicators										IPS									FM&E
Requirements			Ch. 1	Ch. 2	2 Ch. 3	3 Ch. 4	Ch.	Ch. 6	Ch.	7 Ch. 8	Ch. 9	9 Ch. 10	Ch. 11	Ch. 12	Ch. 1	Ch. 2	Ch. 3	Ch. 4	Ch. 5	Ch. 6	Ch. 7
EALR 3 : The student understands the	3.2 Science, Technology, and Society	Careers and Occupations using																			
Nature and Contexts of science and	(STS): Know that science and	Science, Mathematics, and																			
technology. (WASL NC)	technology are human endeavors,	Technology																			
	interrelated to each other, to society,																				
	and to the workplace. (BLUE)	3. Investigate the use of science,																			
		mathematics, and technology within																			
		occupational/career areas of interest.																			
		(WASL NC08 3.2.3 Classroom Based)																			