Helena Public Schools Gr 8 Teacher Desk Reference

Fighth			Subject				
Grade			completed?	Resources	Knowledge	Was this	
Standard	IDEA	Skill	(Y/N)	available?	of Subject	effective?	Comments
		Demonstrate the use of proper laboratory safety					
1.1	D	procedures					
1.1	D	Apply the scientific method to problem solving skills					
1.2	D	Utilize basic metric measurements in science and its relationship to the English system.					
		Distinguish between the concepts of weight, mass,					
1.0	D	volume, density, linear measurement and					
1.2	D	temperature					
1.2	D	Compare measurement systems					
13	D	Students will use critical thinking skills to present					
1.5	D	and defend the results of investigations					
1.4	D	Produce electrical circuits with multiple systems and describe their purpose and function					
		Identify stome within molecules and compounds and					
1.4	D	the forces that hold them together					
1.4	D	Identify parts and functions of complex machines					
1.4	D	Predict outcomes through the use of machines					
		Create and analyze graphs and tables for collecting					
1.5	D	data					
1.6	D/E	Apply and relate controls and variables in scientific investigations					
		Distinguish between the physical and chemical					
2.1	D	properties of matter					
		Compare and contrast physical and chemical					
2.1	D	changes					
		Describe the physical and chemical properties of					
2.1	D	common elements					

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Eighth Grade			Subject completed?	Resources	Knowledge	Was this	
Standard	IDEA	Skill	(Y/N)	available?	of Subject	effective?	Comments
2.2	D	Interpret the atomic theory of atoms and molecules					
2.2	D	Distinguish between atoms and molecules					
2.2	D	Interpret the periodic table of elements					
2.2	D	Demonstrate the use of the pH scale and a variety of indicators					
2.2	D	Identify the properties of acids, bases and salts					
		Distinguish between organic and inorganic					
2.2	D	compounds			_		
2.3	D	Explain the nature of nuclear reactions					
2.3	Е	Explain the Law of Conservation of Matter and Energy					
2.4	Е	Predict how elements combine to form compounds					
2.4	D	Identify types of chemical reactions					
2.4	D	Recognize balanced equations					
		Summarize the laws of conservation of matter, mass,					
2.4	Е	and energy					
2.4	D	Explain the nature of nuclear reactions					
2.5	D	Define the nature an measurements of forces					
		Describe energy transformations through the					
2.5	D/E	application of simple and compound machines					

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Eighth			Subject				
Grade			completed?	Resources	Knowledge	Was this	
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2.5	D	Differentiate between kinetic and potential energy					
2.5	D	Demonstrate the application of forces involved in the principles of buoyancy and flight					
26	D	Describe and measure static and current electricity					
2.0	D	Describe and measure state and current electricity					
2.6	D	Demonstrate the difference between parallel and series circuits					
2.6	D	Relates the principles of light and sound					
2.0		Relates the principles of light and sound					
2.6	D	Relates electricity and magnetism to the production of electricity					
5.1	D	Investigate the career opportunities in the physical sciences					
5.2	D	Recognize scientific views on energy topics that connect with physical science					
5.3	D	Analyze local environmental problems and identify variables as relates to physical sciences					
5.4	D	Apply technology to the physical sciences, and understand how science and technology affect society					
5.4	D	Recognizes the integration of physical science with other sciences					
6.1	D	Appraise how the physical sciences will affect lives now and in the future					
6.2	D	Identify major contributions and events in the advancement of physical science					