

WV CSO Curriculum Planning Tool

Eighth Grade Science

Standard	Objective	Projected Date	Date Taught	Date Assessed	Date Re-Taught	Date Re-Assessed
Standard 1: (SC.S.1)	SC.8.1.1 observation, experiments and theoretical models.					
	SC.8.1.2 scientific knowledge is subject to modification					
	SC.8.1.3 careers & contributions of men and women					
	SC.8.1.4 scientific discoveries					
Standard 2: (SC.S.2)	SC.8.2.1 cooperate and collaborate					
	SC.8.2.2 integrity in data collection					
	SC.8.2.3 skepticism, methods, logical reasoning & creativity					
	SC.8.2.4 explorations, investigations & experiments					
	SC.8.2.5 safe techniques					
	SC.8.2.6 scientific processes & thinking skills					
	SC.8.2.7 charts, graphs & tables					
	SC.8.2.8 gather, graph & interpret data & analyze information.					
	SC.8.2.9 inferential reasoning to make logical conclusions					
Standard 3: (SC.S.3)	SC.8.3.1 parts of a system to the whole system					
	SC.8.3.2 models of an object, event, or process.					
	SC.8.3.3 changes that occur in an object or a system					
	SC.8.3.4 variation in scale & way an object or system works					
Standard 4: (SC.S.4)	SC.8.4.1 biological, earth & space, & physical science					
	SC.8.4.2 structures and functions of cell organelles.					
	SC.8.4.3 circulatory, respiratory & reproductive systems					
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	SC.8.4.5 transpiration, respiration and photosynthesis					
	SC.8.4.6 behaviors of organisms lead to species continuity					
	SC.8.4.7 basic principles of genetics					
	SC.8.4.8 human development similar to other vertebrates.					
	SC.8.4.9 group unknown organisms by characteristics					
	SC.8.4.10 food web					
	SC.8.4.11 metallic, non-metallic or metalloid					
	SC.8.4.12 development of the model of the atom					
	SC.8.4.13 Bohr model of the atom.					
	SC.8.4.14 chemical family on the periodic table					
	SC.8.4.15 diffusion rates & expansion of gases					
	SC.8.4.16 chemical reactions by reaction type					
	SC.8.4.17 factors that might affect the reaction rates					
	SC.8.4.18 identify types of energy and their sources					
	SC.8.4.19 changes in waves through various mediums					
	SC.8.4.20 conservation of energy theory to transformations					
	SC.8.4.21 quantitatively represent work, power, pressure					
	SC.8.4.22 graph and interpret relationships					
	SC.8.4.23 Newton's Laws of Motion					
	SC.8.4.24 mechanical advantage of simple machines					
	SC.8.4.25 quality and quantity of surface and ground water					
	SC.8.4.26 plate tectonics & related geological events.					
	SC.8.4.27 global patterns of atmospheric movement					
	SC.8.4.28 relate rock formations to the types of fossil fuels.					
	SC.8.4.29 describe the factors involved in mining resources.					
	SC.8.4.30 rock layer models					
	SC.8.4.31 exploration and colonization of space					
	SC.8.4.32 diagram motions of Sun, Moon & Earth					
	SC.8.4.33 orbits of planets and comets.					
	SC.8.4.34 different types of galaxies					
Standard 5: (SC.S.5)	SC.8.5.1 applications of space technology in everyday life					
	SC.8.5.2 scientific inquiry & technological design processes.					
	SC.8.5.3 why no technological design is perfect					
	SC.8.5.4 engineering solutions					
Standard 6: (SC.S.6)	SC.8.6.1 make informed personal decisions					
	SC.8.6.2 mass media reports of scientific developments					
	SC.8.6.3 impacts of science and technology					
	SC.8.6.4 science, technology, society & career opportunities					
	SC.8.6.5 effects of technology on society					

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