

8th Grade CSO-Textbook Correlations—Mapped Order

*Please Note—these CSO's are abbreviated to fit on one page, and are the objectives for standard four only.
Standards 1, 2, 3, 5, and 6 are found throughout both series. ★ Represents one WESTEST question (through 2007).

EIGHTH GRADE CSO	GLENCOE PAGES		PRENTICE HALL BOOK/PAGES		EIGHTH GRADE CSO	GLENCOE PAGES		PRENTICE HALL BOOK/PAGES
SC.8.4.22 relationships of distance, time, speed, acceleration	526-532				SC.8.4.6 analyze how behaviors of organisms lead to species continuity	None	★	
SC.8.4.23 Newton's Laws of Motion; qualitatively and quantitatively with vector quantities.	552-568	★			SC.8.4.3 circulatory, respiratory and reproductive systems work together in	71-83		
SC.8.4.20 conservation of energy theory to energy transformations	619	★			SC.8.4.4 cells, tissues and organs of the circulatory, respiratory and reproductive systems of organisms.	69-77	★	
SC.8.4.21 quantitatively represent work, power, pressure	579-589, 598-605, 652-653				SC.8.4.9 group unknown organisms based on observable characteristics	None		
SC.8.4.24 quantitatively mechanical advantage of simple machines.	591-605	★			SC.8.4.10 food web from sunlight to producers to consumers, design an environment where energy needs are met	107,137-139	★	
SC.8.4.12 trace development of the model of the atom	405-413				SC.8.4.26 forces of plate tectonics and related geological events.	180-207	★	
SC.8.4.13 number of protons, neutrons, electrons, draw Bohr model of atom.	410-413, 436-437				SC.8.4.19 changes in waves as they pass through various mediums	669-720		
SC.8.4.11 periodic table to locate, classify as metallic, non-metallic or metalloid.	438-450, 453-457				SC.8.4.25 water on earth as a life sustaining substance	165,170-172	★	H 15-27,34-41,78
SC.8.4.14 elements, chemical family, outer energy level electrons	441, 468-469				SC.8.4.27 patterns of atmospheric movement on local weather and impact of oceans on weather/climate.	122,127	★	H 116-123
SC.8.4.15 evaluate gaseous systems	None				SC.8.4.28 rock formations to the types of fossil fuels.	None in text		
SC.8.4.16 conduct and classify chemical reactions by type; energy type; and write word equations	498-501, 510-511				SC.8.4.29 factors involved in mining resources.	None in text		
SC.8.4.17 identify chemical reaction factors that might affect the reaction rates	449,504-508				SC.8.4.30 construct and interpret rock layer models, stratigraphic interpretation.	250-256	★	C 156-157
SC.8.4.18 identify types of energy and their sources	None	★	H	85-86,106-107	SC.8.4.32 diagram the motions of the Sun, Moon and Earth and explain the phenomena associated with these motions	306-316,321, 329-333,340, 357-358		
SC.8.4.2 identify and explain the structures and functions of cell organelles.	68		C	16-24	SC.8.4.33 compare and contrast the orbits of planets and comets.	336-341,351, 357-361	★	
SC.8.4.5 living, essentials of life, transpiration, respiration and photosynthesis.	130-160	★	C	44-54	SC.8.4.34 compare and contrast the different types of galaxies (e.g., shape, size, components).	386-387		
SC.8.4.7 genetics, Mendel's laws, DNA, monohybrid crosses, sperm and egg, body cells, genes, chromosomes, traits	38-39,44-48, 52,67	★	C	76-103	SC.8.4.31 recognize societal concerns with exploration and colonization of space.	322,344-368		
SC.8.4.8 patterns of human development are similar to other vertebrates.	None in text							