

OpenSciEd and Kentucky Scope and Sequence

Unit	Instructional Resource	Estimated # of days	NGSS Alignment
6th Grade			
Thermal Energy	OpenSciEd 6.2	~ 37 days	PS1-4, PS3-3, PS3-4, PS3-5, PS4-2
Chemical RXNs	OpenSciEd 7.1	~ 25 days	PS1-1, PS1-2, PS1-5, LS1-8
Chemical Reactions & Energy	OpenSciEd 7.2	~ 21 days	PS1-6
Weather, Climate, & Water Cycles	OpenSciEd 6.3	~ 42 days	ESS2-4, ESS2-5, ESS2-6, PS1-4
Plate Tectonics	OpenSciEd 6.4	~ 26 days	ESS1-4, ESS2-1, ESS2-2, ESS2-3
Earth in Space	OpenSciEd 8.3	~ 31 days	ESS1-1, ESS1-2, ESS1-3, PS2-4, PS4-2
7th Grade			
Cells and Systems	OpenSciEd 6.6	~ 25 days	LS1-1, LS1-2, LS1-3, LS1-8
Metabolic Reactions	OpenSciEd 7.3	~ 29 days	LS1-3, LS1-5, LS1-7
Matter Cycling & Photosynthesis	OpenSciEd 7.4	~ 29 days	LS1-2, LS1-6, LS2-3, LS1-3
Light and Matter	OpenSciEd 6.1	~ 18 days	PS4-2, LS1-8
Contact Forces	OpenSciEd 8.1	~ 29 days <i>(4 day optional extension)</i>	PS2-1, PS2-2, PS3-1, LS1-8
Sound Waves	OpenSciEd 8.2	~ 24 days	PS4-1, PS4-2
Forces at a Distance	OpenSciEd 8.3	~ 30 days	PS2-3, PS2-5, PS3-2
8th Grade			
Ecosystem Dynamics	OpenSciEd 7.5	~ 33 days <i>(optional 5 day extension)</i>	LS2-1, LS2-2, LS2-4, LS2-5, ESS3-3
Natural Hazards	OpenSciEd 6.5	~21 days	ESS3-2
Natural Resources and Human Impact	OpenSciEd 7.6	~ 33 days	ESS3-1, ESS3-3, ESS3-4, ESS3-5
Genetics	OpenSciEd 8.5	~ 28 days	LS1-2, LS1-4, LS1-5, LS3-1, LS3-2, LS4-5
Natural Selection	OpenSciEd 8.6	~ 32 days	LS1-4, LS4-1, LS4-2, LS4-3, LS4-4, LS4-6