

Unit Activities and Timing

5E Component	Sample Classroom Activities	Number of 45-Minute Blocks
Engage	<ul style="list-style-type: none"> • Students analyze their moon data to notice and record patterns. • Students create an initial model to explain these patterns. 	2
Explore	<ul style="list-style-type: none"> • Students work in small groups to conduct hands-on and multimedia simulations of Earth-Sun-Moon relationships. • Students gather data about how the positions of the Earth, Sun, and Moon relate to day/night and phases of the moon. 	3
Explain and Extend	<ul style="list-style-type: none"> • Students work in small groups to develop claims supported by the data from their simulations about why we have night and day and why we see different phases of the moon. • Students return to simulations as necessary to defend or refute their developing understandings. • Teacher introduces key vocabulary. • Students read a text that provides additional information about lunar phases. 	4
Evaluate	<ul style="list-style-type: none"> • Students revise their model. • Students critique peers' models. • Students revise their models again. 	2