

Grades 3-5 Scope and Sequence for Outer Planets Compendium

Topic	Lesson	Prior Knowledge and Experience	Learning Goals	NSES Stds.	AAAS Stds.	Colo. Sci. Stds.	Colo. Math Stds.
Comparing Planets	Jupiter's Relative Size	<ul style="list-style-type: none"> numbers and counting volume 	<ul style="list-style-type: none"> comparing the relative sizes of Jupiter and Earth 	B, D, E	4a, 11d	2, 4	1, 5
	The Planets and Scale	<ul style="list-style-type: none"> comparing numbers reading data tables 	<ul style="list-style-type: none"> understanding the scale of the planets 	B, D	4a	4	1, 3
Planetary Systems	Space Travel Guide	<ul style="list-style-type: none"> characteristics of the planets expressing ideas in writing and drawing 	<ul style="list-style-type: none"> understanding science as a human endeavor 	D	4a, 12d	4	-
Space Technology	Charting Progress of New Horizons	<ul style="list-style-type: none"> understanding scale maps 	<ul style="list-style-type: none"> comparing the relative distances of the planets 	D, E	4a, 11d	4	1, 5
	Growing Up With a Mission	<ul style="list-style-type: none"> measurement basic arithmetic mean, median, mode 	<ul style="list-style-type: none"> using data to make predictions 	B	9a, 9b	2	3, 5
	Looking to the Future	<ul style="list-style-type: none"> communication through writing 	<ul style="list-style-type: none"> understanding the relative distances of planets 	E	-	-	-
	Where Are We Going?	<ul style="list-style-type: none"> arithmetic rounding, division, multiplication, fractions 	<ul style="list-style-type: none"> understanding the relative distances of the planets 	D	4a	4	1
Solar System	Modeling the Orbits of Planets	<ul style="list-style-type: none"> general knowledge of the solar system 	<ul style="list-style-type: none"> exploring unique properties of Pluto's orbit 	A, D	4a	1, 4	-
	A Classroom Solar System	<ul style="list-style-type: none"> characteristics of the planets 	<ul style="list-style-type: none"> comparing and exploring the scale model of the planets 	D	4a	4	-
	Planetary Distances on the Playground	<ul style="list-style-type: none"> characteristics of the planets creating scale models 	<ul style="list-style-type: none"> understanding relative distances of the planets 	D	4a	4	1