U.S. Curriculum Correlations by State

Vermont

	Starry Night Lesson Plans *In order of relevance*
Grades 5, 6 **Physical Science** **S5-6:22 Gravitational Force**	
Gravity is the force that holds objects to the Earth's surface, keeps planets in orbit around the Sun, and governs the rest of the motion in the Solar System.	B1 B2 C2 D3
The force of gravity pulls toward the center of mass of an object.	C2 F3
Universe, Earth, Environment **S5-6:44 Characteristics of the Solar System**	
The Earth orbits the Sun in a near circular path that takes a year to complete.	A2 B1 C1 E3
The Moon's orbit around the Earth once in about 28 days changes the portion of the Moon visible to us, as a result of the Sun's reflected light (phases of the Moon).	A4 A3
S5-6:45 Processes and change over time within systems of the Universe	
From Earth the Moon and Sun appear to be the same size, because the Moon is so much closer to the Earth than the Sun.	A5 B2
Telescopes magnify the appearance of some very distant objects in the sky, including the Moon and the planets. The number of stars that can be seen through telescopes is dramatically greater than can be seen by the unaided eye.	C1 C3 D1-D3 E1-E3 F1-F3 G1-G4
Grades 7, 8 **Physical Science** **S7-8:22 Gravitational Force**	
The force of gravity depends on the amount of mass objects have and how far apart they may be.	C2 B1 D3 F3
The force of gravity is hard to detect unless at least one of the objects has considerable mass.	C2 B1 D3 F3
Universe, Earth, Environment **S7-8:45 Processes and change over time within systems of the Universe**	
The Sun is many thousands of times closer to the Earth than any other star. The Sun is located near the edge of the disc-shaped galaxy of stars.	B2 G1 G2 G3 G4
S7-8:48 Processes and change over time within Earth Systems	
Heat from the Sun is the primary source of energy for changes on the Earth's surface. The differences in heating of the Earth's surface produce the planet's weather patterns.	A2 F1 F2
seasons result from variations in the amount of Sun's energy hitting the Earth's surface. This happens because of the tilt of the Earth's axis and the orbit of the Earth around the Sun.	A2