Vermont Middle School	Starry Night Lesson Plans In order of relevance						
Grades 5-6 Expectations							
PHYSICAL SCIENCE							
S5-6:22 Gravitational force	B1-B2	C2	D3	F3	G3		
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.	t B1-B2	C2	D3				
The force of gravity pulls toward the center of mass of an object.	C2	F3	G3				
UNIVERSE, EARTH, ENVIRONMENT							
S5-6:44 Characteristics of the Solar System	A1-A5	B1-B2	C1-C4	D1-D3	12		
The earth orbits the sun in a near circular path that takes a year to complete.	A2	B1	C1	C2	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	A4	A3					
\$5.45 Processes and Change over Time within Systems of the Universe	All Starry Night lesson plans						
From earth the moon and the 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,	C1	C3	C4	D1-D3			
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.	h E1-E4	F1-F3	G1-G3	H1-H2	11-12		

Vermont Middle School (cont'd)	Starry Night Lesson Plans In order of relevance								
Grades 7-8 Expectations									
PHYSICAL SCIENCE									
S7-8:22 Gravitational Force	C2	B1	D3	F3	G3	12			
The force of gravity depends on the amount of mass objects have and how far apart they may be.	C2	B1	D3	F3	G3	12			
The force of gravity is hard to detect unless at least one of the objects has considerable mass.	C2	B1	D3	F3	G3	12			
UNIVERSE, EARTH, ENVIRONMENT									
S7-8:45 Processes and Change over Time within Systems of the Universe	All Starry Night lesson plans								
The sun is many thousands of times closer to the earth than any other star. The sun is located near the edge of a disc-shaped galaxy of stars.	B2	G1-G3	H1-H2						
S7-8:48 Processes and Change over Time within Earth Systems	A2	F1	F2						
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								