| New Brunswick High School Grade 9 | Starry Night Lesson Plans In order of relevance | | | | |
|---|---|-------|-------|-------|-------|
| Earth and Space Science: Space Exploration | | | | | |
| 312-1 describe theories on the formation of the solar system | F3 | B1-B2 | C1 | | |
| 312-2 describe and classify the major components of the universe (nebulae, galaxies, giant stars, dwarf stars, quasars, black holes (312-2)) | C1-C4 | F1-F3 | G1-G3 | H1-H3 | |
| calculate the travel time to a distant star at a given speed: define and explain a light year (210-9) | G1 | | | | |
| explain how data provided by technologies contribute to our knowledge of the universe (109-3) | 11-13 | F1-F3 | G1-G3 | H1-H3 | C1-C4 |
| prepare a comparative data table on various stars, and design a model to represent some of these stars relative to our solar system (209-4, 211-1, 211-3) | G1-G3 | | | | |
| 312-3 describe theories on the origin and evolution of the universe (big bang theory, oscillating theory (312-3)) | H2 | H3 | 13 | | |
| 312-4 describe and explain the apparent motion of celestial bodies (moon, sun, planets, comets, asteroids (312-4)) | A1-A5 | B1-B2 | C2 | D1-D3 | |
| 312-5 describe the composition and characteristics of the components of the solar system (terrestrial and gas planets and Pluto, periodicity of comets, asteroids/meteors (312-5)) | C1-C4 | D1-D3 | | | |
| 312-6 describe the effects of solar phenomena on Earth (sunspots, solar flares, solar radiation (312-6)) | F1-F3 | | | | |
| Nature of Science and Technology | | | | | |
| 109-3 describe and explain the role of experimentation, collecting evidence, finding relationships, proposing explanations, and imagination in the development of scientific knowledge | All Starry Night Lesson Plans | | | | |
| explain how data provided by technologies contribute to our knowledge of the universe(109-3) | 11-13 | C1-C4 | F2 | G1-G3 | H1-H3 |
| 110-6 explain the need for new evidence in order to continually test existing theories | C4 | E4 | F3 | H1-H3 | |
| explain the need for new evidence in order to continually test existing theories about the composition and origin of our solar system and galaxies (110-6) | C4 | E4 | F3 | H1-H3 | |
| Relationships Between Science and Technology | | | | | |
| 111-5 describe the science underlying particular technologies designed to explore natural phenomena, extend human capabilities, or solve practical problems | 11-13 | C1-C4 | G1-G3 | H1-H3 | F1-F3 |
| identify new questions and problems that arise from the study of space exploration (210-16) | C1-C4 | G1-G3 | H1-H3 | F1-F3 | |
| describe the science underlying three technologies designed to explore space (109-11, 111-5) | I1-I3 | | | | |