

Introductory Physical Science and Force, Motion, and Energy
Correlation with the Alaska Grade K-12 Science Content Standards

| Alaska K-12 Science Standard | IPS Ch. 1 | IPS Ch. 2 | IPS Ch. 3 | IPS Ch. 4 | IPS Ch. 5 | IPS Ch. 6 | IPS Ch. 7 | IPS Ch. 8 | IPS Ch. 9 | IPS Ch. 10 | IPS Ch. 11 | IPS Ch. 12 | FM&E Ch. 1 | FM&E Ch. 2 | FM&E Ch. 3 | FM&E Ch. 4 | FM&E Ch. 5 | FM&E Ch. 6 | FM&E Ch. 7 | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---|
| <p><u>A student should understand scientific facts, concepts, principles, and theories.</u></p> <p>A student who meets the content standard should:</p> <p>1. understand models describing the nature of molecules, atoms, and sub-atomic particles and the relation of the models to the structure and behavior of matter (Structure of Matter);</p> | | | | | | | | | | | | | | | | | | | | |
| <p>2. understand the physical, chemical, and nuclear changes and interactions that result in observable changes in the properties of matter (Changes and Interactions of Matter);</p> | | | | | | | | X | X | | X | X | | | | | | | | |
| <p>3. understand models describing the composition, age, and size of our universe, galaxy, and solar system and understand that the universe is constantly moving and changing (Universe);</p> | | X | X | X | X | X | X | X | X | X | X | | | | | | | | | |
| <p>4. understand observable natural events such as tides, weather, seasons, and moon phases in terms of the structure and motion of the earth (Earth);</p> | | | | | | | | | | | | | | | | | | | | |
| <p>5. understand the strength and effects of forces of nature, including gravity and electromagnetic radiation (Forces of Nature);</p> | | | | | | | | | | | | | X | X | X | | | | | X |
| <p>6. understand that forces of nature cause different types of motion and describe the relationship between these forces and motion (Motion);</p> | | | | | | | | | | | | | X | | X | X | | | | |

