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| **Benchmark** | **Content Focus** | **✓** | **Benchmark** | **Content Focus** | **✓** |
| SC.6.N.2.2 | Evaluating new evidence |  | SC.6.P.13.1 | Types of forces |  |
| SC.7.N.1.6 | Explanations based on evidence |  | SC.6.P.13.2 | Gravitational forces & distance& mass |  |
| SC.7.N.1.7 | Scientific debate |  | SC.8.P.8.2 | Distinguish between weight & mass |  |
| SC.7.N.2.1 | Change in scientific knowledge |  |  |  |  |
| SC.8.N.1.6 | Logical reasoning |  | SC.6.P.13.3 | Effects of unbalanced forces on an object |  |
|  |  |  | SC.6.P.12.1 | Analyzing position & time graph |  |
| SC.7.N.1.2 | Differentiate between replication & repetition |  |  |  |  |
| SC.6.N.1.2 | replication |  | SC.7.P.10.1 | Types of radiation from the sun |  |
| SC.6.N.1.4 | Comparing methods & results |  | SC.8.E.5.11 | Characteristics of the Electromagnetic spectrum : ex; wavelength & frequency  |  |
| SC.8.N.1.2 | Evaluate the use of repeated trials or replication |  |  |  |  |
|  |  |  | SC.7.P.10.3 | Movement of different types of waves |  |
| SC.7.N.1.5 | Methods used in diff. scientific fields |  | SC.7.P.10.2 | Reflection, refraction & absorption |  |
| SC.7.N.3.2 | models |  |  |  |  |
| SC.8.N.1.5 | Analyze methods used in diff fields of science |  | SC.7.P.11.2 | Energy transformation |  |
| SC.8.E.5.10 | Identify how technology is essential to science |  | SC.6.P.11.1 | Converting potential energy into kinetic |  |
|  |  |  | SC.7.P.11.3 | Law of conservation of energy |  |
| SC.7.N.3.1 | Distinguishing between theories & laws |  |  |  |  |
| SC.6.N.3.1 | Scientific definition of theory |  | SC.7.P.11.4 | Predictability of heat flow |  |
| SC.8.N.3.2 | Modifying theories |  | SC.7.P.11.1 | Effects of adding or removing heat |  |
|  |  |  |  |  |  |
| SC.8.N.1.1 | Analyzing data & evaluating a procedure |  | SC.8.P.8.4 | Classify & or compare substances on the basis of their physical properties |  |
| SC.6.N.1.3 | Experiment vs other types of scientific investigations |  | SC.8.P.8.3 | Calculating density |  |
| SC.7.N.1.3 | Controlling experimental variables |  |  |  |  |
| SC.7.N.1.4 | Outcome & test variables |  | SC.8.P.8.5 | Elements & compounds |  |
| SC.8.N.1.3 | Conclusive “proof” claims |  | SC.8.P.8.1 | Particle motion |  |
| SC.8.N.1.4 | Value of hypotheses |  | SC.8.P.8.6 | Periodic table |  |
|  |  |  | SC.8.P.8.7 | Atomic structure |  |
| SC.6.E.7.4 | Geosphere, hydrosphere, cryosphere,Atmosphere & biospheres |  | SC.8.P.8.8 | Properties of Compounds (salts, acids & bases) |  |
| SC.6.E.7.2 | Cycling of water & effects on weather & climate |  | SC.8.P.8.9 | Types of mixtures |  |
| SC.6.E.7.3 | Effect of global patterns on local weather |  |  |  |  |
| SC.6.E.7.6 | Differentiate between weather & climate |  | SC.8.P.9.2 | Distinguish between physical & chemical changes |  |
| SC.6.E.7.9 | Role of the atmosphere I protecting & insulating earth (Ozone layer ) |  | SC.8.P.9.1 | Law of Conservation of Mass |  |
|  |  |  | SC.8.P.9.3 | Influence of temperature on chemical change |  |
| SC.6.E.7.5 | The effects of the Suns’ energy on atmospheric movement & temp differences between air, water & land |  |  |  |  |
| SC.6.E.7.1 | Radiation, convection, & conduction |  | SC.6.L.14.1 | Structural organization  |  |
|  |  |  |  |  |  |
| SC.7.E.6.2 | Steps of the Rock cycle & effects on earth’s surface & sub-surface |  | SC.6.L.14.2 | Cell theory |  |
| SC.6.E.6.1 | Phyical & Chemical weathering |  | SC.6.L.14.3 | Cellular processes - homeostasis |  |
| SC.6.E.6.2 | Landforms in Florida |  |  |  |  |
| SC.7.E.6.6 | Human impact on earth |  | SC.6.L.14.4 | Plant & animal cell parts including structure & function |  |
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| SC.7.E.6.4 | Physical evidence & earth evolution |  | SC.6.L.14.5 | Systems of the human body |  |
| SC.7.E.6.3 | Radioactive dating & law of superposition |  | SC.6.L.14.6 | Infectious agents of the human body |  |
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| SC.7.E.6.5 | Plate tectonics |  | SC.6.L.15.1 | Classification |  |
| SC.7.E.6.1 | Layers of the solid Earth |  |  |  |  |
| SC.7.E.6.7 | Effects of heat flow & the movement of material within Earth |  | SC.7.L.15.2 | Theory of evolution/ natural selection |  |
|  |  |  | SC.7.L.15.1 | Fossil evidence & evolution |  |
| SC.8.E.5.3 | Astronomical relationships |  | SC.7.L.15.3 | Causes of extinction |  |
| SC.8.E.5.1 | Relative distance |  |  |  |  |
| SC.8.E.5.2 | galaxies |  | SC.7.L.16.1 | Heredity (genes, DNA & chromosomes) |  |
|  |  |  | SC.7.L.16.2 | Punnett squares |  |
| SC.8.E.5.5 | Physical properties of stars |  | SC.7.L.16.3 | Sexual reproduction-meiosis & asexual reproduction mitosis |  |
| SC.8.E.5.6 | Evaluate models of solar properties & or explain solar characteristics |  |  |  |  |
|  |  |  | SC.7.L.17.2 | Comparing & contrasting relationships between organisms |  |
| SC.8.E.5.7 | Properties of the Sun, planets & moons |  | SC.7.L.17.1 | Energy transfer through a food web |  |
| SC.8.E.5.4 | Gravity  |  | SC.7.L.17.3 | Limiting factors |  |
| SC.8.E.5.8 | Geocentric & heliocentric models |  |  |  |  |
|  |  |  | SC.8.L.18.4 | Law of Conservation of mass & Energy within living systems |  |
| SC.8.E.5.9 | Seasons, phases of the moon, tides & eclipses |  | SC.8.L.18.1 | Photosynthesis  |  |
|  |  |  | SC.8.L.18.2 | Cellular respiration |  |
|  |  |  | SC.8.L.18.3 | Carbon cycle |  |
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