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| Time Frame | Topic/Unit | Skills/Concepts | Major Assessments | Core Standards | Resources |
| September (13 days) | **Introduction to Earth Science** | * graphing
* direct indirect relationships
* cyclic vs. noncyclic
* density & calculations
* CER
 | Equipment labDensity labGraphing labTest | 1.1, 1.2 | * RT (Reference Table) 1, 14
* iPad Pages app to make graphs
 |
| September-October (15 days) | **Measuring Earth** | * latitude longitude
* time zones
* spheres of the earth
* landscapes
* topographic maps, profiles
 | Latitude longitude labTopographic map labTest | 1.1, 1.3, 6.2, 6.3, 7.2 4(1.1c,1.1d, 2.1q | * RT 2. 3
* App on ipads topographic maps
 |
| October-November (15 days) | **Minerals and Rocks** | * mineral identification
* rock identification
 | Mineral labRock labTest | 1.1, 4(3.1a, 3.1b, 3.1c) | * RT 6, 7, 16
* Mineral and rock samples
 |
| November-December (20 days) | **Weathering, Erosion, Deposition** | * types of weathering
* agents of erosion
* patterns of deposition
* factors effecting W, E, D
 | Physical weathering labChemical weathering labStream labTest | 1.1, 1.2, 2.3, 6.1, 4(2.1s, 2.1t, 2.1v) | * RT 6, 7, 2, 3, 1
 |
| December-January (20 days) | **Inner Earth, Plate Tectonics, Earthquakes** | * layers of inner earth characteristics
* types of plate boundaries and examples in RT
* earthquake waves and using RT
 | Inner earth labPlate boundary labEarthquake labTest | 2.3, 4(2.1a, 2.1b, 2.1j, 2.1k, 2.1l, 2.1m, 2.1n, 2.1o, 2.1p) | * RT 5, 6, 7, 10, 11, 1
 |
| January-February (10 days) | **Geologic History** | * relative dating
* absolute dating
* geologic time scale
* index fossils
* evolution
 | Biostratigraphy labRadioactivity labTest | 6.3, 7.1, 4(1.2f, 1.2d, 1.2h, 1.2i, 1.2j, 1.2o) | * RT 1, 2, 3, 8, 9
 |
| February-March (20 days) | **Astronomy** | * planet characteristics
* star characteristics
* parts of the universe
* Big Bang Theory
* moon phases
 | Ellipse labSun’s path labHR star labTest | 1.1, 1.3, 6.3, 6.4, 6.5, 4(1.2d, 1.2b, 1.2f, 1.1a, 1.1h, 2.2a, 1.1f, 1.2e, 2.1b, 1.1d, 1.1i, 1.1g, 1.2a) | * RT 15, 1
* Apps-stellarium, NAAP labs
 |
| April (10 days) | **Water Cycle and Groundwater and Energy** | * water cycle
* groundwater characteristics
* water budgets
* heat transfer
 | Permeability and Porosity labInsolation labTest | 1.1, 2.2, 6.6, 4(1.2g, 1.2b, 2.1u, 1.1i, 1.2f) | * RT 1, 6
 |
| April-May (30 days) | **Weather and Climate** | * factors effecting climate
* weather variables
* planetary winds
* station models
* air pressure
* air masses and fronts
* storms
 | Psychrometer labStation model labTest | 2.1, 2.3, 6.5, 4(1.2e, 1.2h, 1.2b, 2.1c, 2.1e, 2.1g, 2.1h, 2.2b, 2.1h, 2.2b, 2.1e, 2.1d, 2.2d, 1.1a, 2.1i, 2.1o, 2.1r, 2.1s, 2.2c, 1.2g) | * RT 1, 3, 12, 13, 14
* Weather channel
 |
| June (10 days) | **Review** | * Review
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\*\* all units have note packets provided, use ppts, brainpop videos, youtube videos