

| Week of          | Number of Days       | Topic                                                             | Lab Number | Laboratory                                                    |
|------------------|----------------------|-------------------------------------------------------------------|------------|---------------------------------------------------------------|
| Sept. 4 - 8      | 2 xM, T, W           | Introductions                                                     |            |                                                               |
| Sept. 11 - 15    | 5                    | Experimental Design                                               |            | Lab Safety                                                    |
| Sept. 18 - 22    | 3 X R, F             | Graphing/Data Analysis                                            |            | Tables in <i>ESRT</i> Lab                                     |
| Sept. 25 - 29    | 5                    | Graphing/Data Analysis                                            |            | Graphs in <i>ESRT</i> & Relationships in <i>ESRT</i> Labs     |
| Oct. 2 - 6       | 5                    | Density                                                           |            | Graphing Density & Density Tower & Density of Earth's Spheres |
| Oct. 9 - 13      | 4 x M                | Coordinate System<br>Plotting points and<br>Polaris & Latitude    |            | Plotting Volcanoes in <i>ESRT</i> & Marathon Man Labs         |
| Oct. 16 - 20     | 5                    | Earth's Rotation<br>Foucault Pendulum, Star<br>Trails, Time Zones |            | Times od Day in the World Lab                                 |
| Oct. 23 - 27     | 5                    | Contour Maps                                                      |            | Contour Map Lab                                               |
| Oct. 30 - Nov. 3 | 5                    | Calculating Gradients &<br>Making Profiles                        |            | Profile Island and Topographic Profile Labs                   |
| Nov. 6 - 10      | 4 x T                | Landscape Regions &<br>Rock Cycle                                 |            | Landscape Regions in <i>ESRT</i> & Rock Cycle Labs            |
| Nov. 13 - 17     | 5                    | Rocks                                                             |            | Igneous, Sedimentary & Metamorphic Rock Labs                  |
| Nov. 20 - 25     | 3 x R, F             | Minerals                                                          |            | Identifying Minerals & Flowchart in the <i>ESRT</i> Labs      |
| Nov. 27 - Dec. 1 | 5                    | Weathering & Erosion                                              |            | Surface Area Life Saver, Water Sorting Labs                   |
| Dec. 4 - 8       | 5                    | Weathering & Erosion                                              |            | River Erosion (Proud Mary), Water vs. Glacier Labs            |
| Dec. 11 - 15     | 5                    | Earth's Dynamic Crust                                             |            | Pangea, Sea-Floor Spreading, Types of Plate Boundaries Labs   |
| Dec. 18 - 22     | 5                    | Earth's Dynamic Crust & Earthquakes                               |            | Earthquake Epicenter Lab                                      |
| Dec. 25 - 29     | <b>WINTER RECESS</b> |                                                                   |            |                                                               |
| Jan. 1 - 5       | 4 x M                | Geologic History                                                  |            | Stratigraphy / Rock Layers Lab                                |

|              |                             |                                             |  |                                                                  |
|--------------|-----------------------------|---------------------------------------------|--|------------------------------------------------------------------|
| Jan. 8 - 12  | 5                           | Geologic History & Radioactive Decay Dating |  | Geologic Timeline in <i>ESRT</i> & Radioactive Decay Dating Labs |
| Jan. 15 - 19 | 4 x M                       | Review/ Final exam                          |  |                                                                  |
| Jan. 22 - 26 | <b>REGENTS EXAMINATIONS</b> |                                             |  |                                                                  |

Semester 2 (Spring)

| Week of          | Number of Days       | Topic                                                                              | Lab Number | Laboratory                                                                        |
|------------------|----------------------|------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|
| Jan. 30 - Feb. 3 | 4 x M                | Energy (Electromagnetic, Color)                                                    |            | Electromagnetic Energy Lab                                                        |
| Feb. 6 - 10      | 5                    | Color & Types of Heat Energy Transfer (Intro)                                      |            | Colors of Fruit Lab                                                               |
| Feb. 13 - 17     | 5                    | Convection & Conduction                                                            |            | Convection in <i>ESRT</i> & Conduction Labs                                       |
| Feb. 20 - 24     | <b>WINTER RECESS</b> |                                                                                    |            |                                                                                   |
| Feb. 27 - Mar. 3 | 5                    | Specific Heat                                                                      |            | Specific Heat & Convection and Specific Heat Labs                                 |
| Mar. 6 - 10      | 5                    | Phase Changes                                                                      |            | Phase Change in <i>ESRT</i> Lab                                                   |
| Mar. 13 - 17     | 5                    | Angle of Insolation & Causes of Seasons                                            |            | Angle of Insolation (Flashlight) & Model of causes of seasons Labs                |
| Mar. 20 - 24     | 5                    | Seasonal Lines of Latitude, Solar paths and Duration of Insolation                 |            | Seasonal Lines of Latitude, Solar Paths, Duration of Insolation Labs              |
| Mar. 27 - 31     | 5                    | Weather: Isolines, Wind, Coriolis Effect                                           |            | Isotherms, Isobars, Wind & Ocean Currents in <i>ESRT</i> Labs                     |
| Apr. 3 - 7       | 5                    | Weather: Air Masses, Fronts, Weather Station Models, Storms, Synoptic Weather Maps |            | Weather Station Models, Low pressure Systems / Storms , Synoptic Weather Map Labs |
| Apr. 10 - 14     | <b>SPRING RECESS</b> |                                                                                    |            |                                                                                   |
| Apr. 17 - 21     | 3 x M, T             | Weather: Dewpoint & Relative Humidity                                              |            | Dewpoint & Relative Humidity Lab                                                  |
| Apr. 24 - 28     | 5                    | Climate: Factors Affecting                                                         |            | Climate & Latitude /                                                              |

|                 |       |                                                                                         |  |                                                           |
|-----------------|-------|-----------------------------------------------------------------------------------------|--|-----------------------------------------------------------|
|                 |       | Climate (Latitude, Altitude Mountains)                                                  |  | Altitude, Mountains & Climate Labs                        |
| May 1 - 5       | 5     | Climate Factors (Coast vs. Inland, Ocean Currents & Greenhouse Effect / Global Warming) |  | Coast vs. Inland, Ocean Circulation & Climate Change Labs |
| May 8 - 12      | 5     | Water (Water Cycle, Water Table, Flooding)<br>Space: (Solar System)                     |  | Solar System Lab                                          |
| May 15 - 19     | 5     | Space (Stars, Parts of Universe, Big Bang)                                              |  | Characteristics of Stars, Parts of Universe Labs          |
| May 22 - 26     | 5     | Space (Moon, Ellipses) and Practical Prep                                               |  | Practical Practice Labs                                   |
| May 29 - June 2 | 4 x M | Practical practice & Regents Review                                                     |  | Regents Practice                                          |
| June 5 - 9      | 4 x R | Regents Review                                                                          |  | Regents Practice                                          |
| June 12 - 16    | 5     | Regents Review                                                                          |  | Regents Practice                                          |
|                 |       |                                                                                         |  |                                                           |

Grading Policy

Assessments - 40%

Laboratory Assignments - 20%

Participation - 20%

Final Exam / Regents - 10%

Homework - 10%