**Practice Exam Analysis/Study Guide *(Released Sp13 MSL & Fa16 NCFE)***

Mark each question missed and then total the number missed from each unit. Then, use this as a study guide for which units and topics you should spend the most time studying for the final exam.

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| **Sp13 MSL**  **Question** | **Unit Name/Number** | **Topic** |
| 1 | Astronomy/10 | Kepler's Laws |
| 2 | Astronomy/10 | Seasons |
| 3 | Astronomy/10 & Oceans/5 | Tides |
| 4 | Astronomy/10 & Natural Resources/9 | Nuclear Energy |
| 5 | Astronomy/10 & Plate Tectonics/2 | Energy Transfer |
| 6 | Astronomy/10 & Meteorology/6 | Solar Radiation |
| 7 | Plate Tectonics/2 | Plate Boundaries |
| 8 | Plate Tectonics/2 | Earthquakes |
| 9 | Plate Tectonics/2 | Graphing P and S Waves |
| 10 | Rocks, Minerals, and Soil/3 & Oceans/5 | Erosion |
| 11 | Rocks, Minerals, and Soil/3 | Weathering |
| 12 | Fresh Water/4 | Flood Prevention |
| 13 | Rocks, Minerals, and Soil/3 | Vegetation, Soil Formation, and Erosion Control |
| 14 | Oceans/5 | Beach (Re)Nourishment |
| 15 | Natural Resources/9 | Fossil Fuels vs. Nuclear Energy |
| 16 | Oceans/5 | Ocean Currents |
| 17 | Oceans/5 | Ocean Currents |
| 18 | Rocks, Minerals, and Soil/3 & Fresh Water/4 | Ground Water |
| 19 | Rocks, Minerals, and Soil/3 & Fresh Water/4 | Ground Water |
| 20 | Fresh Water/4 & Ecology/8 | Populations and Resources |
| 21 | Fresh Water/4 & Ecology/8 | Impacts of Dams |
| 22 | Fresh Water/4 & Oceans/5 | Salt Water Intrusion |
| 23 | Meteorology/6 | Atmospheric Layers |
| 24 | Meteorology/6 | Atmospheric Composition |
| 25 | Meteorology/6 | Air Masses and Pressure |
| 26 | Meteorology/6 | Air Masses and Fronts |
| 27 | Severe Weather and Climate/7 | Hurricane Formation |
| 28 | Severe Weather and Climate/7 | Air Pollution |
| 29 | Severe Weather and Climate/7 | Ozone Layer Depletion |
| 30 | Meteorology/6 & Severe Weather and Climate/7 | Climate vs. Weather |
| 31 | Ecology/8 & Natural Resources/9 | Heat Islands |
| 32 | Natural Resources/9 | Fossil Fuels |
| 33 | Fresh Water/4 & Oceans/5 & Ecology/8 | Thermal Pollution |
| 34 | Severe Weather and Climate/7 | Global Temperature Change |
| 35 | Fresh Water/4 & Ecology/8 | Ecosystem Diversity |
| 36 | Ecology/8 | Population Interactions |
| 37 | Ecology/8 | Invasive Species |
| 38 | Ecology/8 | Biodiversity |
| 39 | Ecology/8 & Natural Resources/9 | Human Population Growth |
| 40 | Ecology/8 & Natural Resources/9 | Carrying Capacity and Human Population Growth |
| **Fa16 NCFE**  **Question** | **Unit Name/Number** | **Topic** |
| 1 | Rocks, Minerals, Soil/3 | Weathering & Erosion |
| 2 | Natural Resources/9 | Urbanization |
| 3 | Rocks, Minerals, and Soil/3 | Soil & Farming Techniques |
| 4 | Oceans/5 | Density Ocean Currents |
| 5 | Fresh Water/4 | Groundwater |
| 6 | Fresh Water/4 | Freshwater/Groundwater Pollution |
| 7 | Fresh Water/4 | Freshwater Conservation |
| 8 | Severe Weather and Climate/7 | Typhoons & Air Masses |
| 9 | Severe Weather and Climate/7 | Chlorofluorocarbons (CFCs) |
| 10 | Astronomy/10 & Meteorology/8 | Earth’s Axial Rotation |
| 11 | Meteorology/6 & Natural Resources/9 | Urban Heat Island Effect |
| 12 | Ecology/8 & Natural Resources/9 | Deforestation & CO2 Emissions |
| 13 | Ecology/8 | Biodiversity |
| 14 | Astronomy/10 & Meteorology/6 | Axis Tilt & Seasons |
| 15 | Ecology/8 | Non-Native Species |
| 16 | Natural Resources/9 | Agricultural Sustainability |
| 17 | Ecology/8 & Natural Resources/9 | Non-Renewable Resources & Population Growth |
| 18 | Severe Weather and Climate/7 & Ecology/8 | Ground Level Ozone & Photosynthesis |
| 19 | Plate Tectonics/2 | Divergent Boundary & Continental Rift Valleys |
| 20 | Plate Tectonics/2 | Volcanoes |
| 21 | Fresh Water/4 & Rocks, Minerals, and Soil/3 | Water Table & Soil Permeability |
| 22 | Fresh Water/4 & Natural Resources/9 | Freshwater Conservation |
| 23 | Meteorology/6 & Astronomy/10 | Layers of Atmosphere & Solar Radiation |
| 24 | Ecology/8 | Biotic vs Abiotic |
| 25 | Rocks, Minerals, and Soil/3 | Weathering & Erosion |
| 26 | Natural Resources/9 | Mining & Drilling |

Student Analysis

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| Unit | Total Number Missed |
| 1—Scientific Literacy |  |
| 2— Plate Tectonics |  |
| 3— Rocks, Soil, & Erosion |  |
| 4— Freshwater |  |
| 5— Oceans |  |
| 6— Atmosphere & Weather |  |
| 7— Climate & Severe Weather |  |
| 8— Ecology & Biomes |  |
| 9— Natural Resources & Sustainability |  |
| 10—Astronomy |  |

Rank the units in terms of what to study 1st, 2nd, 3rd, etc. based on how many questions you missed: