Module 4
Exploring Creation With Physical Science, edition 2

Cohesion - The phenomenon that occurs when individual molecules are so strongly attracted to each other that they tend to stay together, even when exposed to tension
Electrolysis - Using electricity to break a molecule down into its constituent elements
Hard water - Water that has certain dissolved ions in it, predominately calcium ions
Polar molecule - A molecule that as slight positive and negative charges due to an imbalance in the way electrons are shared
Solute - A substance that is dissolved in a solvent
Solvent - A liquid substance capable of dissolving other substances

Schedule
Take 3 weeks for this module. Take two days for lengthy assignments.
☐ Read 81-84, do Experiment #4.1
☐ Read 85-86
☐ Read 86-90, read Water's Polarity do experiment 4.2
☐ Read 90-93, read and do experiment 4.3
☐ Read 93-97, read text and do experiment 4.4
☐ Read 97-99, read text and do experiment 4.5
☐ Read 99-100 do experiment 4.6
☐ Read 100-to end of module
☐ Study Guide
☐ Study Guide
☐Test

Notes:

Always do the On Your Own questions and check your work afterwards.
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Module 5
Exploring Creation With Physical Science, edition 2

Adiabatic cooling - The cooling of a gas that happens when the gas expands
Condensation - The process by which water vapor turns into liquid water
Percolation - The process by which water passes from above the water table to below it
Residence time - The average time a given molecule of water will stay in a given water source
Transpiration - Emission of water vapor from plants

Schedule
☐ Read 105-107
☐ Read 107-113
☐ 109 Do experiment #5.1
☐ Read The Ocean pp.113-116
☐ Read 116-120 do experiment 5.2 Start early, ex.5.2 will take more time than usual
☐ Read 120 to end of module
☐ 122 do experiment 5.3
☐ Study Guide
☐ Study Guide
☐ Test
Notes:

Always do the On Your Own questions and check your work afterwards.

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Module 6
Exploring Creation With Physical Science, edition 2

Epicenter - The point on the surface of the earth directly above an earthquake's focus
Fault - The boundary between a section of moving rock and a section of stationary rock
Plastic rock - Rock that behaves like something between a liquid and a solid
Sedimentary rock - Rock formed when heat, pressure, and chemical reactions cement sediments together

Schedule
☐ Read 131-136, draw and label fig. 6.1, do OYO as you come to them
☐ 133 do experiment 6.1
☐ 136 do experiment 6.2
☐ Read 138-144
☐ 140 do experiment 6.3
☐ 145 do experiment 6.4
☐ Read 144 through end of module do OYO as you come to them
☐ Study Guide
☐ Study Guide
☐ Test
Notes:

Always do the On Your Own questions and check your work afterwards.

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