



Science - Grade 8 - 40 Weeks

| NYS Performance Indicators | Objectives | Text Resources | Resources (Suggested Activities) | Cross-Curriculum Connections | Assessment Items |
|----------------------------|--|----------------|---|------------------------------|------------------|
| | <p>To be completed in the first half of the 40 weeks:</p> <p>Review for Performance Assessment</p> <p>Content/Process-</p> <ul style="list-style-type: none"> • Students will be able to observe, describe and determine the density of matter and use comparative densities to determine buoyancy (triple beam balance, graduated cylinder, metric ruler) • Students will be able to use a microscope to view objects and determine the size of a microscopic object. • Students will be able to design and conduct a simple controlled experiment to test a hypothesis using appropriate safety procedures. Describe the relationship between force and an object's mass and acceleration. • Students will develop and use a dichotomous key. <ul style="list-style-type: none"> -Living things are classified by shared characteristics on the cellular and organism level. In classifying organisms, biologists consider details of internal and external structures. Biological classification systems are arranged from general (kingdom) to specific (species). -Classify living things according to a student-generated scheme and an established scheme -Recognize and analyze patterns and trends | | <p>Additional resources found at School Island-</p> <p><u>School Island</u></p> | | |

| | | | | | |
|--|---|--|--|--|---|
| | <p>Review for Written Assessment</p> <ul style="list-style-type: none">• Students will attain a minimum proficiency level of 3 on the NYS Intermediate Science Assessment.• Review science content for grades 5, 6, 7, 8 | <p>Utilize Big 8 Review Book (Wagner & Fiero)</p> | | | |
| | <p>To be completed in the last half of the 40 weeks:</p> <p>Prepare students for Scientific Inquiry at the Commencement Level</p> <p>These skills should revolve around topics* in Living Environment and Earth Science. They will include:</p> <ul style="list-style-type: none">• Proficiency in reading, creation, and use of Data Tables and Graphs• Understanding the differences between Dependent and Independent Variables• Proficiency in the vernacular and use of the Scientific Method <p>Gr 8 Science Report Card Objectives</p> | | | | <p>Gr 8 Inquiry Lab Format</p> <p>Standard 1-Analysis, Inquiry & Design</p> |

Vocabulary

Technology Links

[Close Window](#)