

**New Paltz Central School District
Science
Sixth Grade**

| TIME | CONTENT | SKILLS | ASSESSMENTS |
|------------------|--|--|--|
| SEPTEMBER | <p><u>Unit 1:Introduction to the Scientific Process</u></p> <ul style="list-style-type: none"> • Lab Skills • Scientific Writing <p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • What is the difference between an observation and an inference? • How do we, as scientists, compose questions so that they lead to scientific investigation? • How can we, as scientists, set up experiments that can be understood and replicated by others? | <ul style="list-style-type: none"> • Use the steps of the scientific method | <ul style="list-style-type: none"> • Student participation • Homework • Performance based assessment • Unit test |
| OCTOBER | <p><u>Unit 2:Environmental Issues</u></p> <ul style="list-style-type: none"> • Acid Rain • Mohonk Water Testing • Scientific Writing <p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • How do human activities affect the environment? • How can observable and/or measurable patterns be used to solve problems? • How do we form and defend a logical argument based on supporting evidence? | <ul style="list-style-type: none"> • Use litmus, indicator paper, and lamont test kits to test for ph | <ul style="list-style-type: none"> • Student participation • Homework • Performance based assessment • Unit test |
| NOVEMBER | <p><u>Unit 3:Introduction to Metric Measurement</u></p> <ul style="list-style-type: none"> • Linear measurement <p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • What are the connections between math and science? • How do we convert from one unit to another? • Why do scientists use metric measurement? | | <ul style="list-style-type: none"> • Student participation • Homework • Performance based assessment • Unit test |

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| 70-75 מספרים מספרים מספרים | <p><u>UNIT 4: Environmental Issues (Frost Valley)</u></p> <ul style="list-style-type: none"> • Scientific Writing <li style="text-align: center;">- - - • How do human activities affect the environment? • How can observable and/or measurable patterns be used to solve problems? • How do we form and defend a logical argument based on supporting evidence? | | <ul style="list-style-type: none"> • Student participation • Homework • Performance based assessment • Unit test |
| 80-85 מספרים מספרים מספרים | <p><u>Unit 5: Metric Measurement</u></p> <ul style="list-style-type: none"> • Volume, mass, density <li style="text-align: center;">- - - • What is volume? • What is mass? • What is density? • What are the relationships between volume, mass, and density? | | <ul style="list-style-type: none"> • Student participation • Homework • Performance based assessment • Unit test |
| 90-95 מספרים מספרים מספרים | <p><u>Unit 6: Experimental Design</u></p> <ul style="list-style-type: none"> • How do we, as scientists, compose questions so that they lead to scientific investigation? • How can we, as scientists, set up experiments that can be understood and replicated by others? • How do we, as scientists, show our data in a clear and logical way? • How do we form and defend a logical argument based on supporting evidence? | | <ul style="list-style-type: none"> • Student participation • Homework • Performance based assessment • Unit test • Midterm examination |

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| זמן למד התוכנית | <p><u>Unit 7: Chemistry</u></p> <ul style="list-style-type: none"> • Atoms and molecules • Physical change vs. chemical change • Identifying properties • Phases of matter, elements, mixtures and compounds, solubility <p style="text-align: center;">- - - -</p> <ul style="list-style-type: none"> • What is matter? • How does heat energy affect matter? • How do we identify matter? • How do we distinguish between chemical and physical changes? | <ul style="list-style-type: none"> • Identify properties of matter • Identify states of matter • Read and use the Periodic Table • Distinguish between chemical and physical changes | <ul style="list-style-type: none"> • Pre-assessment • Quizzes • Student participation • Homework • Performance based assessment • Unit test • Science fair presentations |
| זמן למד התוכנית | <p><u>Unit 8: Astronomy</u></p> <ul style="list-style-type: none"> • Sun, moon, planets, and stars • Earth's rotation and revolution • The relationship between the motion of objects in the solar system and phenomena such as seasons, phases of the moon, etc. <p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • How does the movement of the earth and the moon affect life on earth? • What is gravity? • What is the life cycle of the stars? | | <ul style="list-style-type: none"> • Student participation • Homework • Performance based assessment • Unit test • Final examination |