



# Connecticut PreK – 12 Mathematics Curriculum Standards

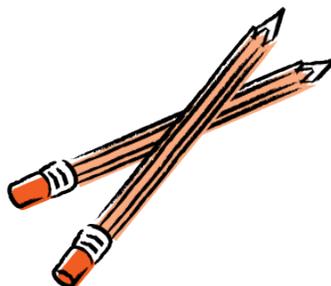
**Algebraic Reasoning: Patterns and Functions**  
Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools, and technologies.

**Content Standard 1.1                      Understand and describe patterns and functional relationships.**

<p>PLT 1 – The shape of Things (PreK-3)          PLT 6 – Picture This! (PreK-5)          PLT 25 – Birds and Worms (K-6)          PLT 66 – Germinating Giants (4-6)          PLT 69 – Forest For The Trees (4-8)          PLT 84 – The Global Climate (6-8)</p>	<p>PLT 69 – Forest For The Trees (4-8)          PLT 76 – Tree Cookies (3-8)          PLT 84 – The Global Climate (6-8)          PWL 7 – Far-Reaching Decisions (9-12)</p>
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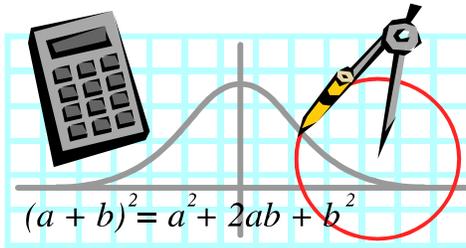
**Content Standard 1.2                      Represent and analyze quantitative relationships in a variety of ways.**

<p>PLT 12 – Invasive Species (5-8)          PLT 16 – Pass the Plants, Please (3-8)          PLT 22 – Trees as Habitats (3-8)          PLT 27 – Every Tree for Itself (K-8)          PLT 25 – Birds and Worms (K-6)          PLT 36 – Pollution Search (2-6)          PLT 37 – Reduce, Reuse, Recycle (3-8)          PLT 38 – Every Drop Counts (4-8)          PLT 41 – How Plants Grow (4-8)          PLT 50 – 400 Acre Wood (7-8)          PLT 66 – Germinating Giants (4-6)          PLT 67 – How Big Is Your Tree? (5-8)          PLT 77 – Trees In Trouble (1-8)</p>	<p>T 66 – Germinating Giants (4-6)          PLT 67 – How Big Is Your Tree? (5-8)          PLT 77 – Trees In Trouble (1-8)          PLT 84 – The Global Climate (6-8)          PLT 85 – In The Driver’s Seat (5-8)          Energy &amp; Society 5 – In the Driver’s seat (5-8)          PWL 7 – Far-Reaching Decisions (9-12)</p>
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**Content Standard 1.3** Use operations, properties and algebraic symbols to determine equivalence and solve problems.

<p>PLT 37 – Reduce, Reuse, Recycle (3-8)</p> <p>PLT 50 – 400-Acre Wood (7-8)</p> <p>PLT 53 – On The Move ((K-8)</p> <p>PLT 66 – Germinating Giants (4-8)</p> <p>PLT 67 – How Big Is Your Tree? (K-8)</p>	<p>PLT 73 – Waste Watchers (4-8)</p> <p>PLT 85 – In The Driver’s Seat (5-8)</p> <p>Energy &amp; Society 5 – In the Driver’s seat (5-8)</p>
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**Numerical and Proportional Reasoning**

Quantitative relationships can be expressed numerically in multiple ways in order to make connections and simplify calculations using a variety of strategies, tools and technologies.

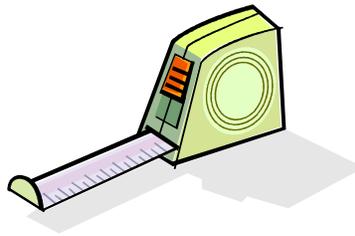
**Content Standard 2.1** Understand that a variety of numerical representations can be used to describe quantitative relationships.

<p>PLT 25 – Birds and Worms (K-6)</p> <p>PLT 27 – Every Tree for Itself (K-8)</p> <p>PLT 35 – Loving It Too Much (6-8)</p> <p>PLT 37 – Reduce, Reuse, Recycle (3-8)</p> <p>PLT 38 – Every Drop Counts (4-8)</p> <p>PLT 50 – 400-Acre Wood (7-8)</p> <p>PLT 53 – On The Move (K-8)</p> <p>PLT 66 – Germinating Giants (4-6)</p> <p>PLT 67 – How Big Is Your Tree? (K-8)</p>	<p>PLT 70 – Soil Stories (K-8)</p> <p>PLT 73 – Waste Watchers (4-8)</p> <p>Energy &amp; Society 5 – In the Driver’s seat (5-8)</p> <p>PWL 7 – Far-Reaching Decisions (9-12)</p>
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**Content Standard 2.2** Use numbers and their properties to compute flexibly and fluently and to reasonably estimate measures and

quantities.

<p>PLT 4 – Sounds Around (1-8)          PLT 27 – Every Tree for Itself (K-8)          PLT 29 – Rain Reasons (6-8)          PLT 37 – Reduce, Reuse, Recycle (3-8)          PLT 38 – Every Drop Counts (4-8)          PLT 50 – 400-Acre Wood (7-8)          PLT 53 – On The Move (K-8)          PLT 66 – Germinating Giants (4-6)          PLT 67 – How Big Is Your Tree? (K-8)          PLT 70 – Soil Stories (K-8)</p>	<p>PLT 71 – Watch On Wetlands (7-8)          PLT 73 – Waste Watchers (4-8)          PLT 76 – Tree Cookies (K-8)          PLT 85 – In the Driver’s Seat (5-8)</p> <p>Energy &amp; Society 5 – In the Driver’s seat (5-8)</p> <p>PWL 7 – Far-Reaching Decisions (9-12)</p>
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**Geometry and Measurement**  
 Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.

**Content Standard 3.1** Use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.

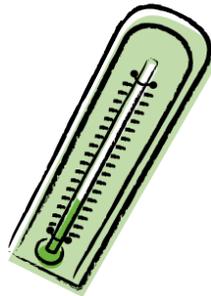
<p>PLT 1 – The shape of Things (PreK-3)          PLT 50 – 400-Acre Wood (7-8)          PLT 66 – Germinating Giants (4-6)          PLT 67 – How Big Is Your Tree? (K-8)          PLT 80 – Nothing Succeeds Like Succession (3-8)</p>	<p>PLT 80 – Nothing Succeeds Like Succession (3-8)</p> <p>PWL 3 – Mapping Your Community Through Time (9-12)</p>
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**Content Standard 3.2** Use spatial reasoning, locations and geometric relationships to solve problems.

<p>PLT 50 – 400-Acre Wood (7-8)          PLT 67 – How Big Is Your Tree? (K-12)</p>	<p>PWL 4 – Neighborhood Design (9-12)</p>
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**Content Standard 3.3** Develop and apply units, systems, formulas and appropriate tools to estimate and measure.

<p>PLT 4 – Sounds Around (1-8)</p> <p>PLT 16 – Pass The Plants, Please (K-4)</p> <p>PLT 21 – Adopt A Tree (3-8)</p> <p>PLT 27 – Every Tree for Itself (K-8)</p> <p>PLT 29 – Rain Reasons (6-8)</p> <p>PLT 48 – Field, Forest, and Stream (4-8)</p> <p>PLT 50 – 400-Acre Wood (7-8)</p> <p>PLT 66 – Germinating Giants (4-6)</p>	<p>PLT 67 – How Big Is Your Tree? (K-8)</p> <p>PLT 70 – Soil Stories (K-8)</p> <p>PLT 71 – Watch On Wetlands (7-8)</p> <p>PLT 73 – Waste Watchers (4-8)</p> <p>PLT 77 – Trees In Trouble (1-8)</p> <p><b>PWL 3 – Mapping Your Community Through Time (9-12)</b></p>
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**Working with Data: Probability and Statistics**

Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.

**Content Standard 4.1                      Collect, organize and display data using appropriate statistical and graphical methods.**

<p>PLT 4 – Sounds Around (1-8)</p> <p>PLT 6 – Picture This (1-5)</p> <p>PLT 12 – Invasive Species (5-8)</p> <p>PLT 16 – Pass the Plants, Please (3-8)</p> <p>PLT 22 – Trees as Habitats (3-8)</p> <p>PLT 25 – Birds and Worms (K-6)</p> <p>PLT 29 – Rain Reasons (6-8)</p> <p>PLT 35 – Loving It Too Much (6-8)</p> <p>PLT 36 – Pollution Search (2-6)</p> <p>PLT 37 – Reduce, Reuse, Recycle (3-8)</p> <p>PLT 38 – Every Drop Counts (4-8)</p> <p>PLT 41 – How Plants Grow (4-8)</p> <p>PLT 47 – Are Vacant Lots Vacant? (4-8)</p>	<p>PLT 53 – On The Move (K-8)</p> <p>PLT 66 – Germinating Giants (4-6)</p> <p>PLT 67 – How Big Is Your Tree? (K- 8)</p> <p>PLT 77 – Trees In Trouble (1-8)</p> <p>PLT 80 – Nothing Succeeds Like Succession (3-8)</p> <p>PLT 84 – The Global Climate (6-8)</p> <p><b>PWL 5 – Green Space (9-12)</b></p> <p><b>PWL 7 – Far-Reaching Decisions (9-12)</b></p>
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**Content Standard 4.2**  
**make predictions.**

**Analyze data sets to form hypotheses and**

<p>PLT 4 – Sounds Around (1-8)                  PLT 16 – Pass the Plants, Please (3-8)                  PLT 22 – Trees as Habitats (3-8)                  PLT 25 – Birds and Worms (K-6)                  PLT 35 – Loving It Too Much (6-8)                  PLT 36 – Pollution Search (2-6)                  PLT 37 – Reduce, Reuse, Recycle (3-8)                  PLT 38 – Every Drop Counts (4-8)                  PLT 41 – How Plants Grow (4-8)                  PLT 47 – Are Vacant Lots Vacant? (4-8)                  PLT 66 – Germinating Giants (4-6)</p>	<p>PLT 67 – How Big Is Your Tree? (1-8)                  PLT 70 – Soil Stories (K-8)                  PLT 77 – Trees In Trouble (1-8)                  PLT 84 – The Global Climate (6-8)                  PLT 85 – In The Driver’s Seat (5-8)</p> <p>PWL 5 – Green Space (9-12)                  PWL 6 – A Vision For The Future (9-12)                  PWL 7 – Far-Reaching Decision (9-12)</p>
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**Content Standard 4.3**  
**probability.**

**Understand and apply basic concepts of**

	PWL 5 – Green Space (9-12)
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For more information about Project Learning Tree, visit [www.plt.org](http://www.plt.org).  
 For information about the Connecticut program, visit [www.ctwoodlands.org](http://www.ctwoodlands.org) or [www.ct.gov/dep](http://www.ct.gov/dep) .