

Plot Studies With Students

Under the Hemlocks

Under the Hardwoods



Plant Inventory

Students count plants, shrubs, seedlings and saplings in their hemlock and hardwood plots.



Create a class graph. What does the data tell us?

Are there differences between the hemlock and the hardwood plots?
What do you think causes these differences?



Arthropod Inventories – Easier than you think!

Find out what is walking across your plot by digging pit traps and taking litter samples



Measuring Snow Depths



Every week measure the depth of the snow -in metrics of course!- in your hemlock and hardwood plots. Compare your data.

Math



Tree Circumference



Taking soil temperatures

Forest Floor layer

- ❁ Percent cover of moss, stick, rocks, grass.
- ❁ Ratios of sticks to leaves.
- ❁ Numbers of plants by type.
- ❁ Numbers of ants, spiders, and other small fauna.
- ❁ Tally leaves by color.
- ❁ Measure fallen pine cones.
- ❁ Snow depths in different locations



4N3 Demonstrate an understanding of fractions as parts of unit wholes, as parts of a collection, and as locations on the number line.

4N4 Select, use, and explain models to relate common fractions and mixed numbers ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, $\frac{1}{8}$, $\frac{1}{10}$, $\frac{1}{12}$, and $1\frac{1}{2}$), find equivalent fractions, mixed numbers, and decimals, and order fractions.

5N5 Identify and determine common equivalent fractions, mixed numbers, decimals, and percents.

4M5 Identify and use appropriate metric and English units and tools (e.g., ruler, angle ruler, graduated cylinder, thermometer) to estimate, measure, and solve problems involving length, area, volume, weight, time, angle size, and temperature.

4D1 Collect and organize data using observations, measurements, surveys, or experiments, and identify appropriate ways to display the data.

4D3 Construct, draw conclusions, and make predictions from various representations of data sets, including tables, bar graphs, pictographs, line graphs, line plots, and tallies.

Let's Go Out and Do Some Math!

