Learning Targets

## Learning Targets

### Right Triangle Trigonometry

### Lesson 1: Angles and Steepness

* I can explain why knowing one acute angle in a right triangle determines the ratio of the side lengths.

### Lesson 2: Half a Square

* I can determine the side lengths of triangles with 45, 45, and 90 degree angles.

### Lesson 3: Half an Equilateral Triangle

* I can determine the side lengths of triangles with 30, 60, and 90 degree angles.

### Lesson 4: Ratios in Right Triangles

* I can build a table of ratios of side lengths of right triangles.

### Lesson 5: Working with Ratios in Right Triangles

* I can use a table of ratios of side lengths of right triangles to estimate unknown angle measures.
* I can use a table of ratios of side lengths of right triangles to estimate unknown side lengths.

### Lesson 6: Working with Trigonometric Ratios

* I can use cosine, sine, and tangent to find side lengths of right triangles.

### Lesson 7: Applying Ratios in Right Triangles

* I can use cosine, sine, and tangent to find the height of an object.

### Lesson 8: Sine and Cosine in the Same Right Triangle

* I can explain why $sin(θ)=cos(90−θ)$.

### Lesson 9: Using Trigonometric Ratios to Find Angles

* I can use arccosine, arcsine, and arctangent to find angle measures in right triangles.

### Lesson 10: Solving Problems with Trigonometry

* I can use trigonometry to solve problems.

### Lesson 11: Approximating Pi

* I can explain how to use regular polygons to approximate the value of $π$.



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