BLOCK Unit 5 - Right Triangle Trig:

Learning Targets and Success Criteria:
1. I can use the Pythagorean Theorem.
   I know I can because:

   o I can find a missing leg of a right triangle.
   o I can find a missing hypotenuse of a right triangle.
   o I can solve real-life problems involving the side lengths of right triangles.

2. I can define trigonometric ratios.
   I know I can because:

   o I can identify the sides of a right triangle as opposite, adjacent, and hypotenuse given a reference angle.
   o I can identify the difference between sine, cosine, and tangent ratios.   (SOH CAH TOA)
   o I can find the sine, cosine, and tangent for a given angle by using the side lengths of a right triangle.

3. I can explain the relationship between the sine and cosine of complementary angles.
   I know I can because:

   o I can recognize that the acute angles in a right triangle are complementary.
   o I can identify that the sine of one acute angle is the same as the cosine of the other acute angle in a right triangle.

4. I solve right triangles using trigonometric ratios and the Pythagorean Theorem.
   I know I can because:

   o I can solve for a missing side of a right triangle.
   o I can solve for a missing angle of a right triangle.

5. I can solve word problems involving right triangles.
   I know I can because:

   o I can draw a right triangle diagram that represents the scenario.
   o I can use trig ratios to solve for the missing side or angle in the scenario.

Day 1:

Learning Targets and Success Criteria:

#1 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10 & Right Triangle Parts Refresher

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Pythagorean Theorem Graphic Organizer

Pythagorean Theorem Practice (We do Evens together, they do Odds independently

Pythagorean Theorem Word Problem Notes

Pythagorean Theorem Word Problems 14-6 Practice

Pythagorean Theorem Quick Practice (#'s 1-6)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 2:

Learning Targets and Success Criteria:

#'s 2 & 3 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10 & SOH CAH TOA Graphic Organizer

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Trig Ratios PowerPoint

Trig Ratios Practice (I do #'s 1, 3, 5, 7 & they finish)

iXLs Q1 & R1

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 3:

Learning Targets and Success Criteria:

#'s 2, 3, & 4 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Missing Side Notes

Missing Side Practice

Trig Ratios and Missing Side Practice

Summarizers: Discuss and correct questions they thought were difficult.

Homework: Pythagorean Theorem Color Activity

correct questions they thought were difficult.

Day 4:

Learning Targets and Success Criteria:

#'s 2, 3, 4, & 5 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Missing Angle Notes

Missing Angle Practice

Graphic Organizer

Solving Right Triangles Notes

Solving Right Triangles Practice

iXL R10

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 5:

Learning Targets and Success Criteria:

#'s 2, 3, 4, & 5 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Angles of Elevation and Depression Ilustrations

Application Problems with Pictures Graphic Organizer

Right Triangle Trig Word Problem Notes

Right Triangle Trig Word Problem Practice

Trig Scavenger Hunt Color Activity

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 6:

Learning Targets and Success Criteria:

#'s 2, 3, 4, & 5 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

8.4 Right Triangle Trig Word Problem Practice

Trig Application Problems Practice

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 6b:

Learning Targets and Success Criteria:

#'s 2, 3, 4, & 5 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Solving Right Triangles Practice

Right Triangle Trig Word Problem Practice (#'s 1-10)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 7:

Learning Targets and Success Criteria:

#'s 2, 3, 4, & 5 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Right Triangle Trig Test Review 1

Right Triangle Trig Color Activity

Right Triangle Trig Test Review 2

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 8:

Learning Targets and Success Criteria:

#'s 2, 3, 4, & 5 (see above)

Standard: **MGSE9-12.SRT.6, 7, 8**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Unit 4 Right Triangle Trig Test

Finish Color (Cupcake)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)