| | | Tooele County Lesson Plan Te | mplate | |
|--|--|---|--|---|
| Class: Secondary Math 2 Standard: G.SRT.6 - understand that by similarity, side leading to definitions of trigonometric ratio | | | le ratios in right triangles are properties of the angles in the triangle os for acute angles. | |
| What do I wa | ant my students to learn and bo | e able to do? Learning Objective in Student Friendly La | anguage (Post in class for stu | udents to see.) |
| | D | iscover trigonometric ratios ir | n right triangles | |
| Tier 1 Instruction - Step by Step Procedure | | | | What will I do if they don't learn it? |
| 10 minutes 5 minutes | Practice Quizette - Proportions Day 3 Homework Q&A | | Populations: | (Tier 2 & 3 interventions) |
| 2 minutes | Trigonometry root words - not so scary! | | *mnemonic device for | *Individual instruction |
| 2 minutes | Ratio and Proportion meaning | | remembering trig ratios | |
| 5 minutes | Pass out and trace 30 60 90 triangles (encourage different orientations) | | *emphasis on written | *Reciprocal Teaching |
| 3 minutes | Pass out and measure side lengths of given triangle and traced triangle | | vocabulary | |
| 3 minutes | Discuss vocabulary: angle of | reference, hypotenuse, opposite, adjacent | | |
| 2 minutes | Label triangles with appropriate vocabulary using the 60 degree angle as the angle | | | |
| | of reference. | | What explicit teaching | What will I do if they already know it |
| 5 minutes | Create the ratios: opposite/hypotenuse, adjacent/hypotenuse, opposite/adjacent | | strategies need to be emphasized? | (What additional challenges will I assign?) |
| 3 minutes | Partner Share: compare ratios. Why does this happen (students should conclude | | | |
| | triangle are similar by AA similarity) | | * Partner sharing (think, | |
| 3 minutes | Label sides of given triangles, set up ratios. | | pair, share) | |
| 2 minutes | - | s, why does this happen? Conclusion! | | |
| minutes | Name the ratios with mnemonic device: soh-cah-toa | | | *Solve for side lengths by setting up |
| 10 minutes | Practice labelling and finding ratios. Quick Poll | | | proportions of missing sides. |
| | s Homework! | | | |
| | ary: Hypotenuse - across from r | | | |
| • | | Sine - opposite/hypotenuse | | |
| | | Cosine - adjacent/hypotenuse Opposite - across from | | |
| roportion - re | elationship between 2 quantities | Tangent - opposite/adjacent Reference Angle | | |

rulers

30 60 90 triangle templates

6.1 task, 6.1 homework

Resources/Materials Needed:

quick poll

Reflect on how the lesson was received by the students:

How will you know that they learned the material?

6.1 quiz

6.1 Homework