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| Unit 4: Trigonometric Ratios |
| **Day 1** | **Primary Trigonometric Ratios** |
| Learn-ing Goals | I can use SOHCAHTOA to solve for a missing side. | 1 | 2 | 3 |
| I can use SOHCAHTOA to solve for a missing angle. | 1 | 2 | 3 |
| I can identify the reciprocal Trig Ratios | 1 | 2 | 3 |
| **Day 2** | **Special Triangles and Exact Values for Quadrant 1** |
| Learn-ing Goals | I can draw the special triangle for $45°$ angles. | 1 | 2 | 3 |
| I can draw the special triangle for $30°$ and $60°$ angles. | 1 | 2 | 3 |
| I can state the exact values for the three trig ratios for $30°, 45° and 60°$ angles. |  |  |  |
| **Day 3** | **Angle Terminology** |
| Learning Goals | I can identify the following terms: Principle Angle, Coterminal Angle, Positive vs Negative Angle. | 1 | 2 | 3 |
| I can find the related acute angle. | 1 | 2 | 3 |
| I can draw a given angle and given related information. | 1 | 2 | 3 |
| **Day 4** | **Unit Circle and the CAST Rule** |
| Learn-ing Goals | I can draw the special angles in each quadrant of the unit circle. | 1 | 2 | 3 |
| I can extend the first quadrant of the unit circle to the other three. | 1 | 2 | 3 |
| I understand how the CAST Rule works. | 1 | 2 | 3 |
| **Day 5** | **Solving for Angles between** $0° and 360°$**.** |
| Learn-ing Goals | I can isolate for the trig ratio. | 1 | 2 | 3 |
| I can find the calculator answer. | 1 | 2 | 3 |
| I can find the 2nd answer using the CAST rule and related acute angles. | 1 | 2 | 3 |
| **Day 6** | **Simplifying Trig Expressions** |
| Learn-ing Goals | I understand the Quotient Identity. | 1 | 2 | 3 |
| I understand the Reciprocal Identity. | 1 | 2 | 3 |
| I can use the 2 basic identities to simplify trig expressions. | 1 | 2 | 3 |
| **Day 7** | **Trig Identities** |
| Learn-ing Goals | I know the different strategies used to prove trig identities. | 1 | 2 | 3 |
| I understand that the identities need to be split left side/right side | 1 | 2 | 3 |
| I can apply the basic identities to make both sides equal. | 1 | 2 | 3 |
| **Day 8** | **2-D Problems Using Sine and Cosine Laws** |
| Learn-ing Goals | I can use the Sine Law | 1 | 2 | 3 |
| I can use the Cosine Law | 1 | 2 | 3 |
| **Day 9** | **Ambiguous Case** |
| Learn-ing Goals | I can determine when the Ambiguous Case occurs | 1 | 2 | 3 |
| I can determine both solutions to the Ambiguous Case | 1 | 2 | 3 |
| **Day 10** | **3-D Word Problems** |
| Learn-ing Goals | I can draw a sketch of a 3-D word problem | 1 | 2 | 3 |
| I can follow multiple steps of the Primary Trig Ratios, Sine Law and/or Cosine Law to solve the problem. | 1 | 2 | 3 |
| **Day 11** | **Review** |
| **Day 12** | **Test** |

**Unit 4 – Trigonometry**

Day 1 – Nelson Page 281 #s 5 – 8 & 11 – 13

Day 2 – Nelson Page 287 #s 4 – 8 & 11

Day 3 – Nelson Page 292 #s 1 – 4

Days 4 & 5 – Nelson Page 300 #s 5, 6ace, 8abc, 9, 12 & 15

Days 6 & 7 – Nelson Page 310 #s 2, 3, 5, 7 & 8abcd

Day 8 – Nelson Page 318 #s 1, 7 & 12 and Page 325 #s 1, 2 & 10

Day 9 – Nelson Page 318 #s 2, 3 & 5

Day 10 – Nelson Page 332 #s 3ab, 5, 7 & 11

Day 11 – Nelson Page 338 #s 1 – 4, 7acd, 9, 11 & 12