**CCHS Mathematics III**

**Credit 1B Assessment Study Guide**

Define the following Mathematical Terms

|  |  |  |  |
| --- | --- | --- | --- |
| rectangle | square | circle | sphere  |
| cube | area | volume | radius  |
| diameter | triangle | Surface area | Angle measure |
| Sin | Cos | Tan | Square Pyramid |
| Trigonometric ratios | 30-60-90 triangle | 45-45-90 triangle | Two-dimensional shape |
| 3d Shape | 360 Rotation about x-axis | 360 rotation about the y-axis | Law of Sines |
| Law of Cosines | Pythagorean Theorem | Heron’s Area Formula |  |

Understand the following Tasks

1. Read the context and identify the matching perimeter of a square.
2. Read the context and identify the area of a rectangle.
3. Read the context and identify the radius, diameter of a circle or sphere.
4. Read the context to determine the area, volume, perimeter, surface area of a geometric figure.
5. Find the area of a triangle from a graph.
6. Find the measure of an angle in a triangle in a special right triangle.
7. Find the Sine, Cosine, and Tangent of angles in a triangle.
8. Use trigonometric ratios to find the side-lengths of a triangle.
9. Find the angles and the area, perimeter of a triangle.
10. Use Heron’s Formula to find the area of a triangle.