

1 Outline of Unit

Duration: 9 days, including quiz, practical applications, review, and unit test.

- Given two sides, finding the missing side in a triangle.
- Given a side and an angle, solving the triangle.
- Given two sides, solving the triangle.
- Using reference angles to turn any triangle problem into a right angle triangle problem.
- Studying applications of the right angle triangle.
 - Angles of elevation and depression, and the use of clinometers and transits.
 - Bearings, both as single angles, and in North/South angle East/West.
 - Calculating distances, lengths, and heights using multiple sightings.

2 Deliverables

- **Worksheet 5** - Solving right angle triangles given a side and an angle.
- **Worksheet 6** - Solving right angle triangles given two sides.
- **Quiz** - Solving Right Angle Triangles.
- **Worksheet 7** - Applications of right angle triangles
- **Worksheet 8** - Applications of right angle triangles (cont.)
- **Worksheet 9** - Applications of right angle triangles (cont.)
- **Project** - Building and using a clinometer.
- **Unit Test** - Scheduled for Feb 01.