

Unit Organizer
5th Grade Math
TRIANGLES

Standards Met in this Unit:

Colorado State Standard 1: Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

- Construct and interpret number meanings through real-world experiences and the use of hands-on materials.
- Use number sense, including estimation and mental arithmetic, to determine the reasonableness of solutions.

Colorado State Standard 4: Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems.

- Connect various physical objects with their geometric representation.

Colorado State Standard 5: Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.

- Understand and apply the attributes of angle measurement in problem-solving situations.
- Make and use direct and indirect measurements to describe and compare real-world phenomena.
- Understand the structure and use of systems of measurement.
- Select appropriate units, including metric and U.S. customary, and tools (for example, rulers, protractors, compasses, thermometers) to measure to the degree of accuracy required to solve a given problem.

Previous Unit: Rate

Next Unit: 4 Sided Figures

Triangles (Singapore Book 5B)

Standards for achievement and performance

Students will be able to ...

1. Estimate and measure angles in degrees.
2. Review from Angles Unit that vertically opposite angles are equal.
3. Review from Angles unit that angles on a straight line add up to 180 degrees.
4. Review from Angles unit that angles at a point add up to 360 degrees.

5. Recognize and be able to show that the three angles in the interior of a triangle add up to 180 degrees.
6. Review and be able to find unknown angles involving vertically opposite angles, angles on a straight line and angles at a point.
7. Identify the following terms: right angle, line, circle, degree, protractor, acute, and obtuse, isosceles, equilateral and right triangle.
8. Use a protractor to accurately measure angles.
9. Use a protractor to accurately draw angles.
10. Find the measure of an angle inside a right-angled triangle.
11. Show using manipulatives how the exterior angle of a triangle is equal to the sum of the interior opposite angles.
12. Draw a triangle using a protractor if given the measure of two of the angles.
13. Draw a triangle using a protractor if given specific measurements.

Vocabulary

Obtuse

Acute

Equilateral

Symmetry

Scalene

Isosceles

Exterior

Interior