

# Math Skills Objectives

Students should be able to:

1. Solve simple equations for a given variable.
- Honors only 2. Solve equations for a given variable involving several methods, including using the quadratic formula and foil methods.
3. Use scientific notation.
4. Use significant digits, physics style.
5. Know the metric prefixes, from nano- through giga-.
6. Do conversions using dimensional analysis.
7. State and use the trigonometric identities: sine, cosine, and tangent.
8. State and use the pythagorean Theorem.
9. Relate radius, diameter, and circumference of a circle.
10. Be able to find the area of the following geometric figures: square, rectangle, triangle, and circle.
11. Know and use the order of operations.
12. Be able to identify the major Greek symbols.
13. Work efficiently with fractions.
14. Identify and use MKS units.
15. Distinguish between fundamental and derived units.
- Honors only 16. Identify and use CGS units.
17. Describe the trend of units standards.