

Appendix 1: Implementing Common Core Standards

The following standards are used in connection with How You Do': The How to Do It curriculum unit: These math objectives can be addressed as students complete the different days in the curriculum unit, not everyone will do all because this unit is applicable to many courses. Students will demonstrate mastery of critical thinking skills as they complete the activities. Some of these activities include acting out activities, charting, diagramming and graphing. The mathematical objectives below are key components in carrying out creative problem solving in this curriculum unit. The unit was written for middle and high school classes.

7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers.

7.EE.1 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.

7.EE.2 Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.

8.F.4 Construct a function to model a linear relationship between two quantities.

8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).

N-Q.2 Define appropriate quantities for the purpose of descriptive modeling.

A-SSE.3 Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

G-MG.1 Use geometric shapes, their measures, and their properties to describe objects.

S-IC.2 Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation.