

Dimensional Analysis *Teacher's Guide*

Students gather data, select appropriate units of measure and convert from one system to another.

GRADE LEVEL: 8th

SUBJECT AREA/COURSE: Algebra I

SUNSHINE STATE STANDARDS:

- Compare, contrast, and convert units of measure between different measurement systems (US customary or metric (SI)) and dimensions including temperature, area, volume, and derived units to solve problems. (MA.8.G.5.1)

ACADEMIC OUTCOMES/LESSON OBJECTIVES:

- Students will convert units between standard and metric systems.
- Students will use ratios to compare units.
- Students will gather data and extrapolate information.
- Students will determine units best suited to represent data.

MATERIALS NEEDED: Internet access with www.pinellas.wateratlas.org bookmarked, scientific calculator

SAFETY: N/A

VOCABULARY: Metric prefixes, Conversion

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Name:

Date: