



Analyzing Tolerance Interval Lesson Plan

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Overview:

The students will be able to read a printout and whether dimensions fall within an acceptable tolerance interval.

Featured Externship Business:

[KS Kolbenschmidt](#)

Subject:

Mathematics

Grade Level(s):

7th and 8th

Learning objectives:

After doing this activity, students should be able to:

- analyze a computer generated report to determine if measurements fall within an acceptable tolerance interval.

Workplace Readiness Skill:

X Social Skills

X Teamwork

X Attitude and Initiative

X Professionalism

X Communication

X Critical Thinking

X Planning and Organization

Media Etiquette

Type of Activity:

X Individual

X Small Group

X Whole class

Model Academic Standards for School Counseling:

Academic Development Domain:

Content Standard C: Students will understand the relationship of academics to the world of work, and to life at home and in the community.

Core Performance Standard 1: Understand how to relate school to life experiences.

Career Development Domain:

Content Standard H: Students will understand the relationship between educational achievement and career development.

Core Performance Standard 2: Participate in ongoing, lifelong learning experiences to adapt to and excel in a diverse and changing economy.

Common Core State Mathematics Standards:

B.8.2 Perform and explain operations on rational numbers

7.NS.1 Apply and extend previous understandings of addition and subtraction to add and subtract Rational numbers

Time:

10-20 MINUTES

Materials:

- [Copies of computer generated reports with dimensions and tolerance listed](#)
- Highlighters

Directions:

1. After introducing the concept of tolerance intervals in previous lesson, have students view the computer generated reports which list dimensions and tolerance typically found in manufacturing.
2. Individual students are to highlight any measurement they believe is unacceptable given the tolerance.
3. Students discuss their report findings with their elbow partner. Both students should agree on the reports and be able to justify their reasoning to the class.

Wrap-up:

As a class, we will discuss our findings for each report and the importance of having someone double check our work.



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