

Day 7: Attend to precision

Objective: You will use clarity and accuracy of process and outcome in problem solving. Summarize what materials and resources are needed to implement the plan with accuracy and clarity.

Rationale: A formal proposal for meaningful change must be edited, revised, polished, and precise. Minor errors can be disqualifiers when submitting work to policy makers and decision makers.

Goal: Move your project proposal from a rough draft to a presentable copy through the revision process. Learn to think critically and analyze primary sources to ensure authentic clarity and accuracy of process.

Key Terms: cite, veracity

Materials & Resources:

Social Studies: [CHIEF SEATTLE'S LETTER](#)

ELA: [Stage 4 of the Writing Process](#); [In-Text Citations](#);

Science: [The 8 Dimensions of Wellness: Where Do You Fit In?](#)

** [8 Dimensions of Wellness](#) (Supplementary resource. Not required reading.)

ACTIVITIES:

Social Studies

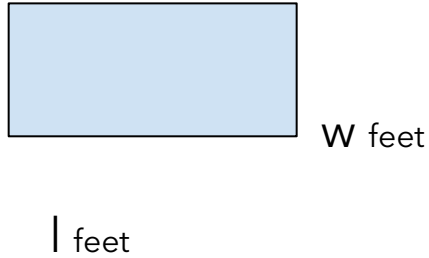
- Read [CHIEF SEATTLE'S LETTER](#).
- Prepare to **think critically**, like historians, by learning to analyze and critique primary sources:
 - (1) **Assess the point of view of an author and source.** - Who is the author of this letter? What is his purpose for writing it? When was it written?
 - (2) **Place arguments in context** - When was this speech delivered? What do you know about this time period in our country? Attend to accuracy.
 - (3) **Validate the veracity* of a claim** - How accurate do you think Chief Seattle’s message is, overall? Is there truth to what he’s claiming?
- **Apply** How can reading primary sources help us to inform a more accurate understanding of a problem? Inversely, how can reading secondary sources be inaccurate?

ELA

- **Edit/Revise** your original proposal to include expanded information and understanding that you’ve gathered since stage 1 of your process.
- **Cite*** your sources in-text appropriately, adding credibility to your content and context.

Math

- The length, l , and the width, w , of the rectangle shown below have values that are rational numbers.



- Construct** an informal proof that shows that the value of the area, in square feet, of the rectangle must be a rational number.
- Calculate** accurately and efficiently. **Explain** your thinking using mathematics vocabulary. **Use** appropriate symbols and specify units of measure.

Science

When thinking about Green Spaces, let's make sure that we are thinking of all the ways that green spaces will promote wellness. Wellness is identified by eight dimensions that focus on optimal health.

The eight dimensions are emotional, spiritual, financial, intellectual, physical, environmental, occupational, and social. Think of ways that Green Spaces can satisfy each area of wellness. (ie: Emotional wellness can be improved by changing what you do in your leisure time. For example, just visiting green spaces to sit and look at nature gets your senses involved and promotes relaxation which can evolve into clarity.)

- Create** an example of wellness within each of the 8 dimensions.
- Apply** Choose two of these dimensions to specifically include in your green space design.
- Explain** how your green space will promote wellness within these dimensions.

MATH ANSWER KEY

Given: l is rational; w is rational.

Prove: $l \times w$ is rational.

Proof: Since l is rational, by the definition of rational number, l can be written in the form $\frac{a}{b}$, where a and b are both integers and b is nonzero. Similarly, since w is rational, by the definition of rational number,

w can be written in the form $\frac{c}{d}$ where c and d are both integers and d is nonzero.

$$\text{Then } l \times w = \frac{a}{b} \times \frac{c}{d} = \frac{ac}{bd}.$$

Since the set of integers is closed under the operation of multiplication, both ac and bd are integers. Thus $l \times w$ is the ratio of two integers. So by the definition of rational number, $l \times w$ is rational.