

Apprenticeship and Workplace Math 10

LG 8&9

MASS, TEMPERATURE AND VOLUME



INTRODUCTION:

Do you like building cooking? Need to create a recipe in SI and imperial units?
Check out pages 136-137.



LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:

- 1) Compare and make conversions within and between Celsius and Fahrenheit temperature scales and between imperial and SI units of mass/weight.
- 2) Examine the differences between mass and weight in each system.
- 3) Perform other conversions that are important in the workplace, such as conversions between mass and volume.



EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. Please refer to your Mathematics 10 (A&W) Marks Record Sheet to determine the assessment.



RESOURCES NEEDED:



Math Works 10 Text

LEARNING ACTIVITIES:



Expectation #1: Compare and make conversions within and between Celsius and Fahrenheit temperature scales and between imperial and SI units of mass/weight.



1. In the Math Works 10 text, read pages 136 – 140 and work through Examples 1 & 2 on pages 141-142.



2. In the Math Works 10 text, complete questions #1-5, (#6 if you want a challenge) on pages 143-144.



3. In the Math Works 10 text, read pages 145 – 151 and work through Examples 1 & 2 on pages 149-151.



4. In your math journal, define the following terms: *mass and weight*.



5. In the Math Works 10 text, complete questions #1-4, (#6 and #7 if you want a challenge) on pages 151-153.



Expectation #2: Examine the differences between mass and weight in each system.



1. In the Math Works 10 text, read pages 154 – 158 and work through Example 1, ACTIVITY 4.7 PROTEIN VS FAT CONTENT, and ACTIVITY 4.8 ESTIMATING MASS.



2. In your math journal, define the following term: *kilogram*.



3. In the Math Works 10 text, complete questions #1-7 (#8 if you want a challenge) on pages 158-160.



Expectation #3: Perform other conversions that are important in the workplace, such as conversions between mass and volume.



1. In the Math Works 10 text, read pages 161-165 and work through Example 1 on pages 163-164.



2. In the Math Works 10 text, complete questions #1-7 (#8 if you want a challenge) on pages 165-167

REVIEW AND CHALLENGE



1. In the Math Works 10 text, read page 168 and complete Chapter 4 Practice Your New Skills pages 169-171 #1-9 (#10 if you want a challenge).