Workplace Mathematics 11

Unit 6: Learning Guides 15, 16, 17

MEASUREMENT

Student: _____

T.A.: _____

Teacher: _____

Returned without mark because:
- ☐ Incomplete
- ☐ Work needs to be shown
- ☐ Unclear presentation
- ☐ Understanding not demonstrated

* **See the classroom teacher**

MARK:
Continue to next guide

COMPLETING THIS GUIDE:

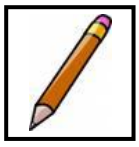
Your job is to use the resources in your textbook and this package to complete the activities identified.

LEARNING OUTCOMES:

1. Solve problems that involve SI and imperial units in surface area measurements and verify the solutions
2. Solve problems that involve SI and imperial units in volume and capacity measurements
3. Use formulas to solve problems related to surface area, volume and capacity

COMPLETING THIS GUIDE:

ACTIVITIES:



☐ **Vocabulary & Formula definitions**

☐ **Workbook Questions**
(Do **NOT** hand in your Workbook.
….Complete on **SEPARATE PAPER**.)

☐ **Review & Challenge Questions**
(Do **NOT** hand in your Workbook.
….Complete on **SEPARATE PAPER**.)

☐ **UNIT PROJECT**

ATTACH THESE TO THIS PACKAGE WHEN YOU HAND IT IN.

Vocabulary & Formula definitions **Unit 6: Measurement**

Give the formula for the AREA of the following shapes: (include a diagram … see page 125)	Rectangle: Triangle: Parallelogram: Circle:
Prism (include a diagram of a rectangular prism)	
Surface Area	
Net	
Volume	
Capacity	

Workbook Questions

(Do **NOT** hand in your Workbook.
….Complete on **SEPARATE PAPER**.)

Area

☐	Pages 124-125	**Read and complete the formula part of your definitions sheet**
☐	Page 126	**Work through Example 1**
☐	Pages 127-128	**Complete #1 & #2**
☐	Pages 129 -130	**Work through Example 2**
☐	Page 131	**Complete #3**

Surface Area

☐	Page 134	**Work through Example 4**
☐	Page 135	**Complete #6**
☐	Pages 136-137	**Work through Example 5**
☐	Page 138	**Complete #8a,b**
☐	Pages 139-141	**Work through Example 6**
☐	Page 142	**Complete #10**

Volume

☐	Pages 170-171	**Read and work through Example 1**
☐	Page 171	**Complete #1**
☐	Page 172	**Work through Example 2**
☐	Pages 172-173	**Complete #2, 3**
☐	Pages 173-174	**Work through Example 3**
☐	Page 176	**Complete #6**

Review & Challenge Questions

(Do **NOT** hand in your Workbook.
….Complete on **SEPARATE PAPER**.)

☐	Page 131	**Question #4**
☐	Page 194	**Questions #1b, #2**
☐	Conversion Worksheet	**Complete the attached worksheet on conversions.**

UNIT PROJECT

Unit 6: Measurement

☐	**SEE ATTACHED**	**Show your work clearly** **Attach your UNIT PROJECT to the back of all other activities listed at the start of this LG.**

Done

(There is no test.)

Workplace Mathematics 11
Unit 6: LGs 15 -17
CONVERSION WORKSHEET

Use the following conversion table to complete the questions below.

Imperial		Metric (SI)
1 ft^2	=	0.0929 m^2
1 yd^2	=	0.8361 m^2
1 ft^3	=	0.0283 m^3

Complete the following questions, showing your work thoroughly:

1. Convert 6 ft^2 to m^2

2. Convert 18.5 yd^2 to m^2

3. Convert 33.75 ft^3 to m^3