MFM2PI – *Unit 8: Geometry – Lesson 2*  Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Metric & Imperial Conversions: Area and Volume**

1. **How Are Area and Volume Conversions Different?**

With the conversion tables provided, area and volume conversions are no different than those for linear or mass conversions!

However, let’s look at a conversion that is common to linear, area, and volume conversions to see exactly how the conversions are really changing. Let’s use inches to centimeters.

***Linear****: in to cm* ***Area****: in2 to cm2* ***Volume****: in3 to cm3*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is going on as the conversions move from linear to area to volume?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Practice Makes Perfect!**

a) Convert 760 cm2 to m2. b) Convert 2460 mL to L. c) Convert 12 yd2 to m2.

g) Convert 14 cm2 to in2. h) Convert 55 cm3 to in3. i) Convert 45 ft2 to yd2.

j) Convert 1 cm3 to ft3. k) Convert 7.635 m2 to cm2. l) Convert 9.33 L to mL.

**HW: *Unit 8 Lesson 2 Worksheet***