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| **Math 10 – Unit Assignment (Measurement Booklet)** |

* Your assignment grade for this unit will be based on a **booklet** showing your understanding of **measurement** **conversions**.
* You will use the Internet to research the necessary information
* Use the **unit conversion** process and **show your intermediate steps**

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| Quick Conversions (5 pts) |

* Express any portions of imperial units in **fractions** rather than a decimal
1. Determine your height (ft. in.) and convert into **cm**. (or vice versa)
2. Determine your body mass (lbs.) and convert into **kg**. (or vice versa)
3. Convert the capacity of a soda / juice bottle (mL) into **oz*.***.
4. Convert today’s temperature ( °C) into **(°F)**. [use: **F =** $\frac{9}{5}$ **C + 32** ]
5. Convert Langley’s **elevation** above sea level into feet:

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| Other Conversions (2 pts.) |

* Use the **unit conversion** process and **show your intermediate steps**

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| Travel Conversions (5 pts.) |

* Use the internet to help select a holiday destination in the continental USA and to choose a vehicle to drive to this location.
1. Convert the imperial distance to your location into **km**. (or vice versa)
2. Calculate the **number of litres** needed to drive to your destination.
3. Convert the USD per US gallon into **CDN ¢ per litre**.
4. Calculate the **cost** (**$CDN**) of driving to your destination.
5. Calculate the **cost** **($CDN**) of driving an **equivalent** distance in Canada

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| Other Measurements (2 pts.) |

* Use the **unit conversion** process and **show your intermediate steps**

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| Three–Dimensional Measurements (6 pts.) |

* Show the **formulae** and necessary **intermediate steps** to calculate the required **surface area / volume**