

# Intro Module

## Getting Ready For BBTE 10

**Grade Level:** 10

**Timeframe:** 10 X 60 Minute Classes

**Group Size:** 1-2, Section A and B should be done alone.

**Objective:**

GCO 1 - Apply the knowledge and skills necessary for safe and responsible operation of equipment and resources.

GCO 2 – Communicate effectively by designing, developing, publishing, and presenting multimedia and online products

**Module Overview:** In this module students will complete a Passport to safety test, learn about measurements, and will go through the Google Sketchup tutorials.

**Final Product Specifications/Requirements:** To be submitted to the teacher by end of day 9<sup>th</sup> of this module.

1. Passport to Safety Certificate
2. Measurement assignment
3. Google Sketchup Tutorial completion files (7 files)

**PowerPoint Final Project Requirements:** (Spend some or all day 10 on this)

- Scan or take screen shot of your certificate.
- Talk about Google sketchup and perhaps show one of your models using screen shots.

## Evaluation

Part	Task	Value	Description
A	Passport to Safety	10	Follow the directions in part A of this module
B	Measurement	10	Follow the directions in part B of this module
C	Google Sketchup	70	Follow the directions in part C of this module
D	Log	10	Follow the directions in part D of this module
	<b>Total</b>	100%	

### A. Passport to Safety (Value-10): To be completed individually.

In this section you will be testing your safety knowledge and upon completion you will be getting a certificate from WHSCC, which you can add to your portfolio and mention on your resume. The test should take you about one class. Only one partner should work on this and the other partner should be working on Part B. The next day they can rotate, to make sure each partner completed each section alone.

1. For this section you will need to obtain a pin number and a password from your teacher.
2. Once you are ready you should log in at <http://www.passporttosafety.com> to take the test.
3. Click on



4. Enter your Pin # and password and log in.
5. Once you arrive you might be asked to fill out your profile, do so correctly.
6. Then you will be forwarded to another screen with a list of courses you are registered in.
7. Under "My Courses" you should be enrolled in **English: Passport to Safety Challenge for Teens**
8. Click on that and start your test.
9. Once you are done the test you can click on the "Home" button on the page
10. Then under the transcript section click on **View/Update and Print Transcript** and print your certificate.

### B. Measurement (Value-10): To be completed individually.

This section will help you to get more comfortable with doing measurements in inches. . Only one partner should work on this and the other partner should be working on Part B. The next day they can rotate, to make sure each partner completed each section alone.


To complete this section follow the below steps:

1. Read and understand the measurement notes in Appendix A. Ask questions if you are puzzled.
2. Complete the Question Sheet in Appendix B.

### C. Google Sketchup (Value-70):

"Google Sketchup is an easy-to-learn 3D modeling program that enables you to explore the world in 3D. With just a few simple tools, you can create 3D models of houses, sheds, decks, home additions, woodworking projects - even space ships." (google.com)

Your task in this section is to learn as much as you can about the program, as you will be using it through out your projects. Follow the below steps to complete this section:

1. Click on the Googel Sketchup Icon  on the desktop.
2. Once the program starts, you can get to the tutorials through the welcome page, or you can go to this URL <http://sketchup.google.com/tutorials.html>
3. Complete all the tutorials in order and save each tutorial as a separate file.
4. Your files should be placed in an appropriate folders BBT10-Projects-Intro-Sketchup- with an appropriate name such as jilljacktut1, jilljacktut2 ....

#### **D. Log (Value-10):**

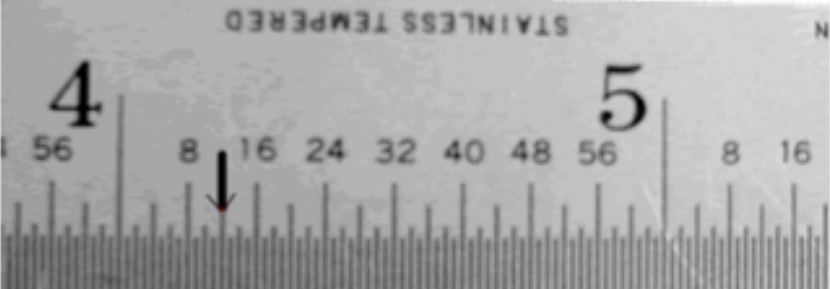

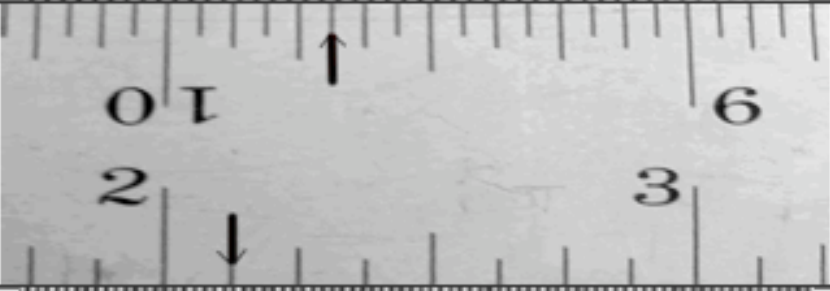
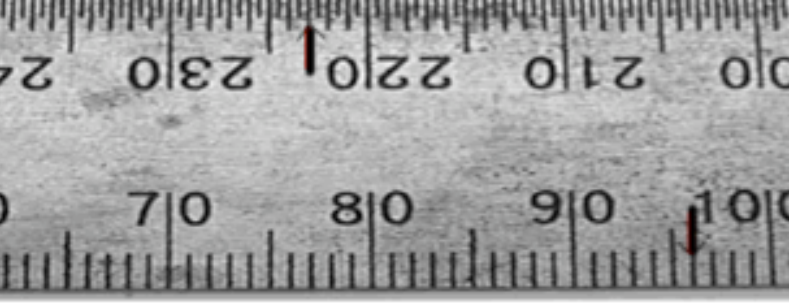
You should be keeping a record of all your activities each day a in a journal type log. This will be marked and should be handed in with your project. You should have a log even for days you were absent, explaining what you did to make up the time.

**Day 10- is set aside for marking your projects, while you work on gathering materials for your final PowerPoint Presentations.**

# Appendix A

# Can You Read a Measuring Tape or Ruler?

One of the most basic skills in all trades is accurate measuring. In construction, measurements to the nearest  $\frac{1}{8}$ " or 2 mm can be OK (but not recommended). If you are manufacturing airplane parts you will need to be accurate to the nearest  $\frac{1}{1000}$ " or 0.01 mm. Below are some examples of rulers and the common graduations that are marked on them.

<p>This Imperial ruler is graduated in <math>\frac{1}{64}</math>"</p> <p><i>Not true size</i></p> <p><i>This measurement is <math>4 \frac{12}{64}</math>" or <math>4 \frac{3}{16}</math>"</i></p>	
<p>This Imperial ruler is graduated in <math>\frac{1}{32}</math>"</p> <p><i>Not true size</i></p> <p><i>This measurement is <math>1 \frac{22}{32}</math>" or <math>1 \frac{11}{16}</math>"</i></p>	
<p>This Imperial ruler is graduated in <math>\frac{1}{8}</math>" and <math>\frac{1}{16}</math>"</p> <p><i>Not true size</i></p> <p><i>This measurement is <math>9 \frac{11}{16}</math>" and <math>2 \frac{1}{8}</math>"</i></p>	
<p>This Metric ruler is graduated in millimeters and <math>\frac{1}{2}</math> millimeters</p> <p><i>Not true size</i></p> <p><i>This measurement is 22.3mm and 90mm</i></p>	

<http://sjhigh.nbed.nb.ca/phinney/unb/Courses/Malley%20Console%20Project/Student%20Question%20Pages/Ruler%20Questions.htm>

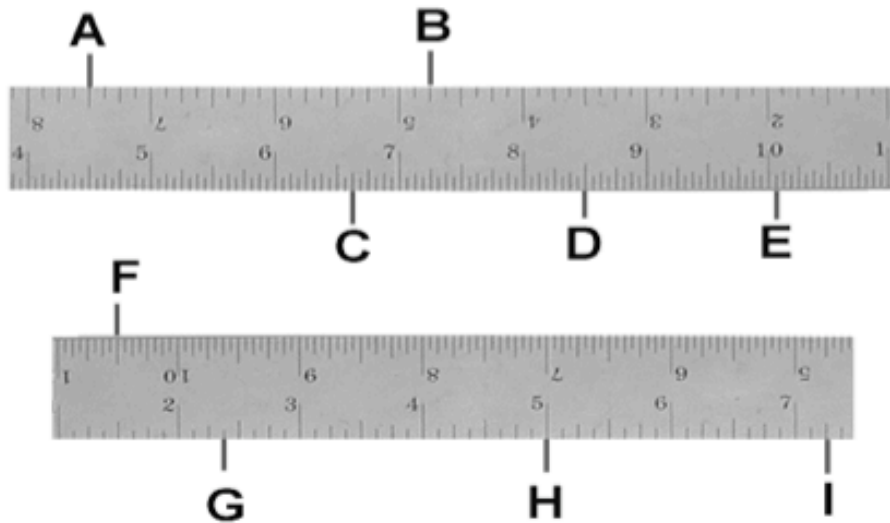
# Appendix B

## Measurement Questions

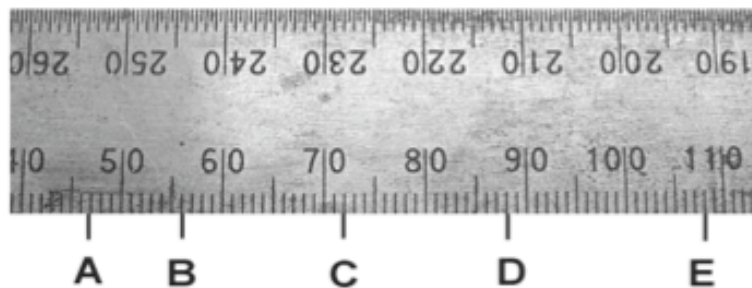
Identify each of the points marked on the rulers

Name: \_\_\_\_\_ Date: \_\_\_\_\_

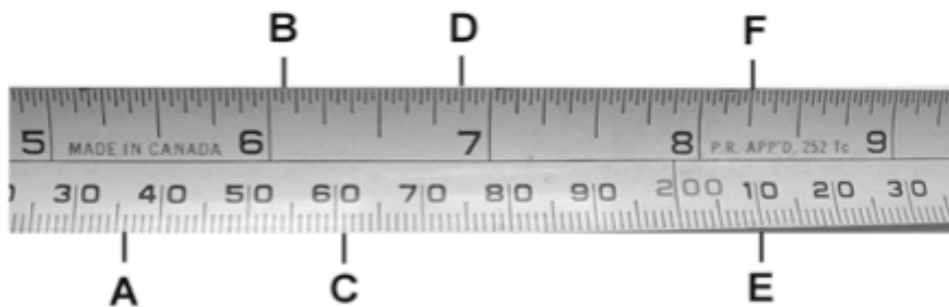
Imperial Ruler



Metric Ruler



Carpenters Measuring Tape (Combination metric and imperial)



## Measurement Exercise

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Complete the table using the diagrams above. Make sure you record the units. (Inches or millimeters) Look carefully at the information on the ruler.

Imperial Ruler		Metric Ruler		Measuring Tape	
A	7 ½ inches	A	47 mm	A	
B		B		B	
C		C		C	
D		D		D	
E		E		E	
F				F	
G					
H					
I					