

Name: _____

Date: _____

BLM U2-1

Unit 2 Project Checklist

Option 1
I Need To ...
<input type="checkbox"/> research the types of units for angle measure and their history
<input type="checkbox"/> search for when, why, who, where, and what, relating to degrees, radians, and other types of units for angular measure
<input type="checkbox"/> prepare a presentation or report which includes <ul style="list-style-type: none"><input type="checkbox"/> the reasons why radian measure was invented<input type="checkbox"/> the reasons why π is used for radian measure<input type="checkbox"/> the unit of angle measure I prefer and an explanation of my choice<input type="checkbox"/> the reasons why other types of units for angle measure exist and in which situations are they used

Option 2
I Need To ...
<input type="checkbox"/> research periodic functions as they relate to broadcasting
<input type="checkbox"/> search the Internet for carrier waveforms—what they are, how they work, and their connection to periodic functions
<input type="checkbox"/> prepare a presentation or report which includes <ul style="list-style-type: none"><input type="checkbox"/> a brief description of carrier waveforms and their significance<input type="checkbox"/> an example of carrier waveforms in use, as well as a diagram<input type="checkbox"/> an explanation of the mathematics involved and how it helps to model a broadcast

Option 3
I Need To ...
<input type="checkbox"/> search for information relating supersonic travel and trigonometry
<input type="checkbox"/> prepare a presentation or report which includes <ul style="list-style-type: none"><input type="checkbox"/> a brief description of Mach numbers<input type="checkbox"/> an explanation of the mathematics involved in expressing a Mach number as a function of θ<input type="checkbox"/> examples of Mach numbers and resulting shock wave cones<input type="checkbox"/> an explanation of the effects of increasing Mach numbers on the cone angle, θ



Name: _____ Date: _____

BLM U2-1
(continued)

Option 4

I Need To ...

- research how trigonometry and trigonometric functions are used to analyse crime scenes
- prepare a report that addresses at least two areas that are used by forensic scientists to solve and piece together the events of a crime scene; some choices are trajectory determination, blood pattern identification, and background sound analysis from videotapes or cell phones
- identify and explain the trigonometric functions used, one of which must be a sine function, and what the variables represent
- show the application to a problem by providing the calculations and interpreting the results

