

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

**BLM U3-1**

## Unit 3 Project Checklist

Option 1
<b>I Need To ...</b>
<input type="checkbox"/> search the Internet for an equation or a formula involving radicals that is related to motion or distance in space, or for an astronomer whose work led to discoveries in those areas.
<input type="checkbox"/> research the formula to determine why it involves a radical, or research the mathematics behind the astronomer's discovery.
<input type="checkbox"/> prepare a poster that includes the following: <ul style="list-style-type: none"><li>• the origin of the radical equation or background information on the astronomer</li><li>• an explanation of the mathematics involved and how the formula relates to distance or motion in space</li><li>• sources of all materials used in my research</li></ul>

Option 2
<b>I Need To ...</b>
<input type="checkbox"/> search the Internet for a rational expression that is related to space-time, black holes, solar activity, or another space-related topic.
<input type="checkbox"/> research the topic to determine why it involves a rational expression.
<input type="checkbox"/> write a one-page report on my topic that includes the following: <ul style="list-style-type: none"><li>• a brief description of the space anomaly and its significance</li><li>• identification of the rational expression I am using</li><li>• an explanation of the mathematics involved and how it helps to model the anomaly</li><li>• sources of all research used in my report</li></ul>

Option 3
<b>I Need To ...</b>
<input type="checkbox"/> design a new logo for a company specializing in space tourism to various regions of the galaxy. My logo includes both reciprocal functions and absolute value functions.
<input type="checkbox"/> draw my logo.
<input type="checkbox"/> list the functions I used, and the domains necessary for the logo.

