Fantasy Island

Standards:
1. Identify and explain how lines of latitude and longitude divide earth into hemispheres.
2. Determine the coordinates of a place using lines of latitude and longitude.
3. Explain the difference between absolute and relative location.
4. Identify and determine the absolute and relative location of a place using latitude and longitude.
5. Identify and determine the absolute or relative location of a place using the compass rose—cardinal and intermediate directions.
6. Determine the distance between cities using a map scale.
7. Explain the difference between a continent, country, and state.
8. Identify and explain how geographical features help or hinder settlement patterns.
9. Demonstrate collaboration with peers by offering constructive feedback and comments.

Task:
You and your partner have been commissioned by the National Geographic Society to furnish a map of a newly discovered island for their fall magazine. You have been chosen for your notable collaborative efforts in the field of cartography.

In order to successfully map the island, the National Geographic Society has broken your task into four checkpoints before the final piece is complete. National Geographic will not only assess the content material, but also judge your ability to work with others.

Before you Begin, draw your island on the blank Robinson Projection Map. See Ms. Tufo for a full size map.
Final Product

You and your partner have been commissioned by the National Geographic Society to furnish a map of a newly discovered island for their fall magazine. You have been chosen for your notable collaborative efforts in the field of cartography.

In order to successfully map the island, the National Geographic Society has broken your task into three checkpoints before the final piece is complete. National Geographic will not only assess the content material, but also judge your ability to work with others.

The final product must include:

Coordinates/Geographical Features

Draw your island on the blank Robinson Projection Map. Your map must include:

1. Four Coordinates: Farthest Northern/Southern boundary and farthest Eastern/Western Boundary.
2. At least four geographical features. See page GH 14-15 in your textbook for ideas. Examples would be: mountains, plains, rivers…
3. Explanation as to how these feature help or hinder human settlement.

Hemispheres

After discovering the island, the National Geographic Society would like you determine the absolute location of the island. They would like you and your partner to determine the following:

1. Coordinates and absolute location of the island using latitude and longitude. Your measurements should include four locations: furthest northern/southern coordinates and eastern/western coordinates.
2. Hemisphere location based on latitude and longitude.

Absolute/Relative Location

National Geographic representatives spoke with native inhabitants and determined the name of the capital city. You and your partner must do some field research to determine the absolute and relative location of the capital city. They would like you to:

1. Determine the coordinates and absolute location of the island using latitude and longitude.
2. Determine the relative location of the city in relation to the Equator using cardinal and/or intermediate directions.
Scale

The National Geographic Society would also like you to map the scale of the furthest Northern/Southern boundary and furthest Eastern/Western boundary. Use the scale to complete the following activity:

1. Draw a line connecting the Northern/Southern Boundary and Eastern/Western Boundary.
2. Using the map scale ratio below: 1 inch = 1 mile, determine the distance between the boundaries. Remember to show work on a separate piece of paper!

Presentation

You and your partner will present your work to the class. You may choose to present on a tri-fold presentation board or Powerpoint Presentation. Your presentation will be graded on two criteria: Visual Presentation and Oral Presentation

Visual:

Each section must include the four headings:
1. Coordinates/Geographical features
2. Hemispheres
3. Absolute/Relative Location
4. Scale
5. Spelling and grammar used correctly throughout.

Oral:

1. Shared responsibility between partners
2. At least five minutes in length and no longer than 10.
3. Clear and concise.
**Fantasy Island Final Rubric**

### Coordinates/Geographical features

<table>
<thead>
<tr>
<th>Criteria</th>
<th>3</th>
<th>2</th>
<th>1-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coordinates</strong></td>
<td>All coordinates are correct</td>
<td>Some coordinates are correct</td>
<td>Few or none of the coordinates are correct</td>
</tr>
<tr>
<td><strong>Identifies at least four geographical features</strong></td>
<td>Identifies four geographical features</td>
<td>Identifies three geographical features</td>
<td>Identifies less than two geographical features</td>
</tr>
</tbody>
</table>

### Hemispheres

<table>
<thead>
<tr>
<th>Criteria</th>
<th>3</th>
<th>2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Determines absolute location using proper coordinates</strong></td>
<td>All coordinates are correct</td>
<td>Some coordinates are correct</td>
<td>Few or none of the coordinates are correct</td>
</tr>
<tr>
<td>(x 2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Identifies hemisphere(s)</strong></td>
<td>All coordinates include direction North/South of the Equator or East/West of the Prime Meridian</td>
<td>Some coordinates include direction North/South of the Equator or East/West of the Prime Meridian</td>
<td>Few or none of the coordinates include direction North/South of the Equator or East/West of the Prime Meridian</td>
</tr>
</tbody>
</table>

### Absolute/Relative Location

<table>
<thead>
<tr>
<th>Criteria</th>
<th>3</th>
<th>2</th>
<th>1-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Determines absolute location using proper coordinates</strong></td>
<td>All coordinates are correct</td>
<td>Some coordinates are correct</td>
<td>Few or none of the coordinates are correct</td>
</tr>
<tr>
<td>(x 2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Identifies relative location of capital city</strong></td>
<td>Used cardinal and/or intermediate directions to correctly identify relative location of capital city in relation to the Equator.</td>
<td>Used cardinal and/or intermediate directions, however, incorrectly identified the relative location of capital city in relation to the Equator.</td>
<td></td>
</tr>
</tbody>
</table>

Points Earned: __________/ 6 Points Possible

Points Earned: __________/ 9 Points Possible
<table>
<thead>
<tr>
<th>Criteria</th>
<th>3</th>
<th>2</th>
<th>1-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draw line between boundaries</td>
<td>Connected furthest Northern/Southern and Eastern/Western boundaries</td>
<td>X</td>
<td>Did not connect all boundaries with a line</td>
</tr>
<tr>
<td>Determine Distance Between Cities (X 2)</td>
<td>Accurately determined distance between boundaries—showing all work</td>
<td>Accurately determined distance between boundaries—showing some work</td>
<td>Did not accurately determine distance between boundaries—showing little or no work</td>
</tr>
</tbody>
</table>

**Presentation**

Points Earned: __________/ 9 Points Possible

<table>
<thead>
<tr>
<th>Criteria</th>
<th>4</th>
<th>3</th>
<th>1-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headings</td>
<td>Includes all 4 headings</td>
<td>Includes 3 headings</td>
<td>Includes 2 headings or less</td>
</tr>
<tr>
<td>Length</td>
<td>At least 5 minutes in length and no longer than 10</td>
<td>Less than 5 minutes or longer than 10</td>
<td>1 to 4 minutes in length.</td>
</tr>
<tr>
<td>Spelling/Grammar</td>
<td>No errors</td>
<td>1-2 errors</td>
<td>3+ errors</td>
</tr>
</tbody>
</table>

**Overall Collaboration**

Points Earned: __________/ 12 Points Possible

<table>
<thead>
<tr>
<th>Criteria</th>
<th>3</th>
<th>2</th>
<th>1-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collaboration</td>
<td>Often gave ideas and suggestions that helped the group</td>
<td>Sometimes gave ideas and suggestions that helped the group</td>
<td>Rarely gave ideas and suggestions that helped the group</td>
</tr>
</tbody>
</table>

Points Earned: __________/ 3 Points Possible

**Overall Total:**

Points Earned: __________/ 48 Points Possible