Task 1: Coordinates

Standards:
1. Determine the coordinates of a place using lines of latitude and longitude.
2. Identify and determine the absolute and relative location of a place using latitude and longitude.

Background

Lines on globes and maps provide information that can help you easily locate places on earth. These lines—called latitude and longitude—cross one another, forming a pattern called a grid system.

Latitude and Longitude

Lines of latitude, or parallels, circle the earth parallel to the Equator and measure distance north or south of the Equator in degrees (°). The Equator is zero degrees latitude, while the North Pole lies at 90 degrees North latitude.

Lines on longitude, or meridians, circle the earth from Pole to Pole. These lines measure distances east or west of the starting line, known as the Prime Meridian, at zero degrees longitude.

Absolute Location

The grid system formed by lines of latitude and longitude makes it possible to find the absolute location of a place. Only one place can be found at the point where a specific line of latitude crosses a specific line of longitude. The precise point where one line of latitude crosses one line of longitude is called absolute location.
**Task:**

Places on the earth are located using a grid system known as latitude and longitude. Use the atlas in your textbook on pages R2 and R3 to find the missing coordinates for the cities provided. Your final assessment must include:

1. Identify Coordinate Number
2. Label Degree symbol
3. Label direction North/South of the Equator or East/West of the Prime Meridian.

Find the missing coordinate for these cities:

1. Springfield 40 N, ________
2. Vitoria ________, 40 W
3. Reno ________, 120 W
4. San Jose 10 N, ________
5. Villa Bella ________, 65 W
6. Montevideo 35 S, ________
7. Mitu 71 N, ________
8. Melbourne 37 S, ________
9. Sydney ________, 151 E
10. Chicago 42 N, ________

**Rubric:**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Identifies Coordinate Number</strong></td>
<td>Identifies all coordinates correctly</td>
<td>Identifies some coordinates correctly</td>
<td>Identifies few or none of the coordinates correctly</td>
</tr>
<tr>
<td><strong>Label Degree Symbol</strong></td>
<td>All coordinates include degree symbol</td>
<td>Some coordinates include degree symbol</td>
<td>Few or none of the coordinates include degree symbol</td>
</tr>
<tr>
<td><strong>Label direction North/South of the Equator or East/West of the Prime Meridian</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>
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Points Earned: __________ / 12 Points Possible