



Name: _____

Date: _____



Map Cube Questions

Keywords (add more words):

area biggest value Earth System
 least legend most smallest value

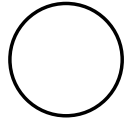
1. Examine- What do the colors of the map tell you? Look closely at the map.

- The color I see the **most** is _____.
- The color I see the **least** is _____.
- The (day/monthly/year) on the map is _____.

2. Search and Find- Where on Earth do you see this map?

a. What part of the world does the map show? (For example, country, continent, ocean, etc.) _____

b. Point to a spot on the map and color this circle with a crayon (or pencil) of a matching color to show the color in the spot on the map.



c. The color in the spot I am pointing to tells me that the **area** on the map is _____.

3. Analyze- What do the colors and numbers on the map tell you?

- The color on one end of the **legend** is _____. This means _____.
- The color on the other end of the **legend** is _____. This means _____.
- The number on one end of the **legend** _____. This means _____.

4. Ask- What information do you want to know about the map?

- I want to know _____.
- How _____?

5. Connect- How do the data connect to the locations on the map?

- The place with the **biggest value** or number is _____.
- The place with the **smallest value** or number is _____.
- What locations share similar values? Why do you think these are similar?

6. Assess- What information can you identify on the map?

- The information on the map shows _____.
- What part of the **Earth System** is this information related to air, water, land, ice, living things?



Name: _____

Date: _____



Map Cube Questions

Keywords (add more words):

area biggest value Earth System
 least legend most smallest value

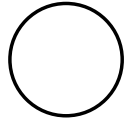
1. Examine- What do the colors of the map tell you? Look closely at the map.

- The color I see the **most** is _____.
- The color I see the **least** is _____.
- The (day/monthly/year) on the map is _____.

2. Search and Find- Where on Earth do you see this map?

a. What part of the world does the map show? (For example, country, continent, ocean, etc.) _____

b. Point to a spot on the map and color this circle with a crayon (or pencil) of a matching color to show the color in the spot on the map.



c. The color in the spot I am pointing to tells me that the **area** on the map is _____.

3. Analyze- What do the colors and numbers on the map tell you?

- The color on one end of the **legend** is _____. This means _____.
- The color on the other end of the **legend** is _____. This means _____.
- The number on one end of the **legend** _____. This means _____.

4. Ask- What information do you want to know about the map?

- I want to know _____.
- How _____?

5. Connect- How do the data connect to the locations on the map?

- The place with the **biggest value** or number is _____.
- The place with the **smallest value** or number is _____.
- What locations share similar values? Why do you think these are similar?

6. Assess- What information can you identify on the map?

- The information on the map shows _____.
- What part of the **Earth System** is this information related to air, water, land, ice, living things?



Name: _____

Date: _____



Map Cube Questions

Keywords (add more words):

Earth System highest value latitude least longitude
lowest value most pattern

1. **Examine**- What do the colors of the map tell you? Look closely at the map.
 - a. The colors that show the **most** represent _____ .
 - b. The colors that show the **least** represent _____ .
 - c. The date(s) shown on the map (is/are) _____ .
2. **Search and Find**- Where on Earth do you see this map?
 - a. Something or someplace I recognize on the map is _____ .
 - b. The **latitude** goes from _____ to _____ .
 - c. The **longitude** goes from _____ to _____ .
3. **Analyze**- What changes do you observe? What happened?
 - a. The **highest values** show up in _____ areas. This means _____ .
 - b. The **lowest values** show up in _____ areas. This means _____ .
 - c. One **pattern** or change I observe is _____ .
4. **Ask**- What information do you want to know about the map?
 - a. I want to know _____ .
 - b. How _____ ?
5. **Connect**- How do the data connect to the locations on the map?
 - a. The **latitude** and **longitude** of a place with the **highest value**/number is _____ .
 - b. The **latitude** and **longitude** of a place with the **lowest value**/number is _____ .
 - c. What locations share similar values? Why do you think these are similar?
6. **Assess**- What information can you identify on the map?
 - a. Summarize the information that you learned from looking at the map.
 - b. What part of the **Earth System** is this information related to? _____
Example: atmosphere, biosphere, etc.



Name: _____

Date: _____



Map Cube Questions

Keywords (add more words):

Earth System highest value latitude least longitude
lowest value most pattern

1. **Examine**- What do the colors of the map tell you? Look closely at the map.
 - a. The colors that show the **most** represent _____ .
 - b. The colors that show the **least** represent _____ .
 - c. The date(s) shown on the map (is/are) _____ .
2. **Search and Find**- Where on Earth do you see this map?
 - a. Something or someplace I recognize on the map is _____ .
 - b. The **latitude** goes from _____ to _____ .
 - c. The **longitude** goes from _____ to _____ .
3. **Analyze**- What changes do you observe? What happened?
 - a. The **highest values** show up in _____ areas. This means _____ .
 - b. The **lowest values** show up in _____ areas. This means _____ .
 - c. One **pattern** or change I observe is _____ .
4. **Ask**- What information do you want to know about the map?
 - a. I want to know _____ .
 - b. How _____ ?
5. **Connect**- How do the data connect to the locations on the map?
 - a. The **latitude** and **longitude** of a place with the **highest value**/number is _____ .
 - b. The **latitude** and **longitude** of a place with the **lowest value**/number is _____ .
 - c. What locations share similar values? Why do you think these are similar?
6. **Assess**- What information can you identify on the map?
 - a. Summarize the information that you learned from looking at the map.
 - b. What part of the **Earth System** is this information related to? _____
Example: atmosphere, biosphere, etc.



Name:

Date:



Map Cube Questions

Keywords (add more words):

coordinates Earth System longitude latitude
time frame unit variable

1. **Examine**- What do the colors of the map tell you? Look closely at the map.
 - a. What **variable** is represented by the colors?
 - b. This **variable** explains _____.
 - c. The **unit** used for the **variable** is _____.
Example, cm, mm, inches, m, km, etc.
 - d. The **time frame** for the map is _____.
2. **Search and Find**- Where on Earth do you see this map?
 - a. The **latitude** and **longitude coordinates** are _____.
 - b. An area (or **coordinates**) with the highest values is _____.
This represents _____.
Example: North, West, Asia, Africa, 13.4° N, 144.7° E
 - c. An area (or **coordinates**) with the lowest values is _____.
This represents _____.
Example: North, West, Asia, Africa, 13.4° N, 144.7° E
3. **Analyze**- What changes do you observe? What happened?
 - a. I observe the following pattern _____.
 - b. What changes (or similarities) do you observe in the data values along lines of **latitude**? What may influence this pattern?
 - c. What changes (or similarities) do you observe in the data values along lines of **longitude**? What may influence this pattern?
4. **Ask**- What information do you want to know about the map?
 - a. My hypothesis is that if _____, then _____.
 - b. How many _____? How long _____? How often _____?
5. **Connect**- How do the data connect to the locations on the map?
 - a. Select a location on the map. What does the information on the legend tell you about the location?
 - b. Scan the entire map and select a few locations. How does the **variable** change?
 - c. What events or processes could cause these data **values** to change?
6. **Assess**- What information can you identify on the map?
 - a. Summarize the information that you observed on the map.
 - b. What part of the **Earth System** is this information related to atmosphere, biosphere, cryosphere, geosphere, or hydrosphere?
 - c. Explain the changes in this part of the **Earth System**?
 - d. How does this **variable** affect other parts of the **Earth System**?



Name:

Date:



Map Cube Questions

Keywords (add more words):

coordinates Earth System longitude latitude
time frame unit variable

1. **Examine**- What do the colors of the map tell you? Look closely at the map.
 - a. What **variable** is represented by the colors?
 - b. This **variable** explains _____.
 - c. The **unit** used for the **variable** is _____.
Example, cm, mm, inches, m, km, etc.
 - d. The **time frame** for the map is _____.
2. **Search and Find**- Where on Earth do you see this map?
 - a. The **latitude** and **longitude coordinates** are _____.
 - b. An area (or **coordinates**) with the highest values is _____.
This represents _____.
Example: North, West, Asia, Africa, 13.4° N, 144.7° E
 - c. An area (or **coordinates**) with the lowest values is _____.
This represents _____.
Example: North, West, Asia, Africa, 13.4° N, 144.7° E
3. **Analyze**- What changes do you observe? What happened?
 - a. I observe the following pattern _____.
 - b. What changes (or similarities) do you observe in the data values along lines of **latitude**? What may influence this pattern?
 - c. What changes (or similarities) do you observe in the data values along lines of **longitude**? What may influence this pattern?
4. **Ask**- What information do you want to know about the map?
 - a. My hypothesis is that if _____, then _____.
 - b. How many _____? How long _____? How often _____?
5. **Connect**- How do the data connect to the locations on the map?
 - a. Select a location on the map. What does the information on the legend tell you about the location?
 - b. Scan the entire map and select a few locations. How does the **variable** change?
 - c. What events or processes could cause these data **values** to change?
6. **Assess**- What information can you identify on the map?
 - a. Summarize the information that you observed on the map.
 - b. What part of the **Earth System** is this information related to atmosphere, biosphere, cryosphere, geosphere, or hydrosphere?
 - c. Explain the changes in this part of the **Earth System**?
 - d. How does this **variable** affect other parts of the **Earth System**?



Name: _____

Date: _____

Map Cube Questions

1. Examine- What do the colors of the map tell you?

- The color scale represents the variable _____
Example, temperature, precipitation, etc.
- This variable explains _____
- What is the unit for the variable? _____
Example, cm, mm, inches, m, km, etc.
- What is the range for the unit? _____

2. Search and Find- Where on Earth do you see this map?

- What is the latitude and longitude range?
- Identify a place you recognize and its approximate latitude and longitude.
- What type of map projection is this?

3. Analyze- What changes do you observe? What happened?

- What patterns are there for the high values?
- What patterns are there for the low values?
- What time frame does this map represent?

4. Ask- What information do you want to know about the map?

- Form a hypothesis about the data displayed on the map.
- What inference can you make about the cause of the data displayed?

5. Connect- How do the data connect to the locations on the map?

- Look at the legend on the map. What do you interpret that is happening?
- How does the variable change by latitude and longitude on the map?
- How do the values change by area?
- What events or processes could cause these data values to change?

6. Assess- What information can you identify on the map?

- Why do you think this variable changed by area?
- How does this variable affect other parts of the Earth System?
- How could you determine the impact of this variable on other parts of the Earth System?



Name: _____

Date: _____



Map Cube Questions

1. Examine- What do the colors of the map tell you?

- The color scale represents the variable _____
Example, temperature, precipitation, etc.
- This variable explains _____
- What is the unit for the variable? _____
Example, cm, mm, inches, m, km, etc.
- What is the range for the unit? _____

2. Search and Find- Where on Earth do you see this map?

- What is the latitude and longitude range?
- Identify a place you recognize and its approximate latitude and longitude.
- What type of map projection is this?

3. Analyze- What changes do you observe? What happened?

- What patterns are there for the high values?
- What patterns are there for the low values?
- What time frame does this map represent?

4. Ask- What information do you want to know about the map?

- Form a hypothesis about the data displayed on the map.
- What inference can you make about the cause of the data displayed?

5. Connect- How do the data connect to the locations on the map?

- Look at the legend on the map. What do you interpret that is happening?
- How does the variable change by latitude and longitude on the map?
- How do the values change by area?
- What events or processes could cause these data values to change?

6. Assess- What information can you identify on the map?

- Why do you think this variable changed by area?
- How does this variable affect other parts of the Earth System?
- How could you determine the impact of this variable on other parts of the Earth System?