Name: **Date:**

Data Cube Questions

Keywords (add more words):

collect/collected   data   highest value   instrument
lowest value   measure

1. Examine- What are the data (information) about?

a. The **data** (information) are about _____ .
Example: air temperature, precipitation, plants, etc.

b. By looking at the **data** I see _____ .

2. Search and Find- How were the data **measured**?

a. The **data** were **collected** by _____ .
Example: me, scientist, satellite, etc.

b. The **instrument** used to **measure** this **data** was a/an_____ .
Example: thermometer, ruler, etc.

3. Analyze- What do the **data** show?

a. The place on Earth where the **data** were **collected** is _____.
Example: city, state, latitude/longitude, global, etc.

b. I observe that the time when the **data** were **collected** is _____
Example: month, year, day, etc.

4. Ask- Write your own questions using the **data**.

a. Why _____?

b. How_____ ?

5. Connect- How can we use this information to help us?

a. These **data** help us understand_____ .

b. These **data** can help scientists by_____ .

6. Assess- What does the information tell you? Calculate or estimate using the **data**.

a. The **highest value** is _____ . The **lowest value** is _____ .

b. Graph the **data** (use graph paper or create your own graph to show your

information).

Name: **Date:**

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Name: **Date:**

🔍 Data Cube Questions

Keywords (add more words):

collect/collected   data   geographic area   highest value
lowest value   time range   unit

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1. Examine- What are the **data** (information) about?

a. The **unit** used for the **data** is _____ .
Example: °C, cm, kg, etc.

b. The **data** represent (are about)_____.
Example: temperature, distance, mass, etc.

2. Search and Find- How were the data measured?

a. The data were **collected** every _____ .
Example: day, week, month, year, etc.

b. The data were **collected** by_____ .
Example: me, scientist, satellite, etc.

3. Analyze- What does the information tell you? Calculate or estimate the numbers.

using the **data**.

a. The **highest value** is _____ and represents _____ .

b. The **lowest value** is _____ and represents _____ .

c. The pattern/s I see _____ in the **data** is/are _____.
Example: the most, the least, etc.

4. Ask- Write your own questions using the **data**.

a. Why does_____ ?

b. How can _____ ?

5. Connect- How can we use this information to help us?

a. These **data** help us understand_____ .

b. These **data** help explain why_____ .

c. These **data** can help scientists understand _____ .

6. Assess- What do the **data** show?

a. The **geographic area** of Earth where the data were **collected** is_____.
Example: city, state, latitude/longitude, global, etc.

b. The **time range** (when did it happen?) is from _____ to _____.
Example: Monday, October, 12:00, etc.

c. Graph the **data.** (Use graph paper or create your own graph to show your

information.)

Name: **Date:**

🔍 Data Cube Questions

Keywords (add more words):

collect/collected   data   geographic area   highest value

lowest value   time range   unit

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Name: _____   **Date:** _____

🔍 Data Cube Questions

Keywords (add more words):

central tendency   data   Earth System   mean   median   mode
phenomenon   sphere   time range   variable   unit

1. Examine- What are the **data** about?

a. The **variable** is _____ . It represents _____ .

b. The independent **variable** is_____ .

c. The dependent **variable** is _____ .

2. Search and Find- How were the **data** measured?

a. The _____ instrument collected these data.

b. The **data** are collected every _____ .
Example: day, week, month, quarter, year, etc.

c. The **unit** used to describe the data is_____ .
Example: °C, cm, kg, etc.

3. Analyze- What does the **data** show?

a. The geographic area of Earth that is represented is_____ .

b. The **time range** is from_____ to _____ .

c. This **variable** belongs in the_____ **sphere** of the **Earth System**.
Example: Hydrosphere, Atmosphere, etc.

4. Ask- Write your own questions using the **data**.

a. How do…, Why…, What is…_____ .

b. I would like to compare_____ with these **data** because_____ .

c. How do these **data** affect another **sphere** in the **Earth System**?

5. Connect- How can we use this information to help us?

a. These **data** help us understand _____ .

b. These **data** can explain the **phenomenon** of_____ because_____ .

6. Assess- What does the information tell you? Calculate or estimate the numbers using the **data**.

a. The range of the **data** is _____ .

b. The data's **mean** is equal to_____; **median**_____; **mode** _____.

c. The measure of **central tendency** that best represents the data is the

_____ . This is because _____ .
mean, median or mode

d. Graph the **data** (use graph paper or create your own graph to show your information).

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Name: **Date:**

🔍 Data Cube Questions

> **Keywords (add more words):**
> central tendency   data   Earth System   mean   median   mode
> phenomenon   sphere   time range   variable   unit

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         mean, median or mode

     d. Graph the **data** (use graph paper or create your own graph to show your information).

my NASA data

Name: **Date:**

🔍 Data Cube Questions

1. **Examine-** What are the data about?

   a. What does the variable represent?

   b. What is the range of the data?

   c. In which sphere of the Earth System does this variable belong?

2. **Search and Find-** How were the data measured?

   a. What instrument/s collected these data?

   b. How frequently were the data collected?

   c. What unit describes the data?

3. **Analyze-** What does the data show?

   a. What geographic area on Earth do the data represent?

   b. What time range do these data represent?

   c. What area and time data would you like to collect to help you analyze these data?

4. **Ask-** Write your own questions using the data.

   a. Identify a question related to these data that you could research.

   b. Identify another scientific variable that you could evaluate with these data.

   c. How do you think this area compares to other geographic provinces in your region?_____

   (i.e., coastal plain, highlands, etc.)

5. **Connect-** How can we use this information to help us?

   a. What kinds of research questions could we use these data for?

   b. Describe how you may use these data to explain a naturally occurring event.

   c. How is technology connected to these data?

6. **Assess-** What information do you see on the graph?

   a. Are there any outliers? If so, what are they?

   b. Do the outliers meet your expectations? Why/Why not?

   c. Graph the data (use graph paper or create your own graph to show your information).

Name: **Date:**

Data Cube Questions

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