**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisory: CU RIC PC**

**Date: 6/15/16**

**Independent Research**

**Do Now:**

1) How do you find the density of a substance?

2) How can you change the density of a liquid? A gas?

3) What is the difference between dew point and humidity?

4) Which gas is the most common in the troposphere?

5) Imagine a weather map. There is an area of low pressure and an area of high pressure. Which direction is the wind blowing?

6) Imagine you are a water molecule in a pond. Where can you go next? List 3 possible locations where you could possibly go next on your path.

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**Objective:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Inquiry Task:** If you did not finish the Inquiry task yesterday, you have the next 10 minutes to finish. If you have completed the Inquiry Task- you will start working on today’s assignment- Independent Research.

Some scholars are completing their Inquiry Task- you must remain silent until all Inquiry Tasks are handed in. Read through the assignment on the next page, raise your hand if you have any questions.

**Independent Research:** The following assignment will be your last grade for Writing, Research, Technology, and Literacy. Read all of the directions before you start. This is an independent assignment, your research question must be your own.

**Step 1)** *Brainstorming*: Circle one of the following topics- your research question will be on this topic.

 Topics: a) Severe Weather

 b) Global Warming

 c) Earth’s Oceans

 d) Earth’s Atmosphere

 e) Meteorology

 *Research Question:* Think about the topic you circled. In the space below, list any questions that you still have on that topic. Is there any part of the topic that you would like to learn more about? Is there anything you still wonder?

 1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Question Selection:* Choose one questions from the list you created to research. Before you start your research, answer the questions below to check the ‘research-ability’ of your question.

|  |  |  |
| --- | --- | --- |
| **Question** | **If your answer is no…** | **If your answer is yes…** |
| Is there an answer to your question?  | Time to choose a new question. | Continue below. |
| Are you trying to predict the future? | Correct answer! Continue below. | Well then you will not find your answer. Start again. |
| Can your question be answered with either yes or no? | That means you have a complex question! Continue. | Then you cannot research the question… try again. |
| Can you find the answer from multiple sources? | That’s not good… try again. | Cool!! You need at least two… keep going. |
| Will you need more than one class period? | Good! You have less than one class period to find the answer. | You have a research paper topic, not a research question. Try to narrow your question down. |
| Do you know the answer to your question already? | Awesome! This is why we are researching! | No No No! Try again |
| Did your research question make it through this table? | No- Then how did you get here? | Yes- Great! Continue to Step 2! |

**Step 2)** Research! As you research your question, complete the note trackers below. Fill in all information before moving onto a new source (see example below. If you are having trouble finding sources, visit our google classroom page for helpful links (bit.ly/2026sci). You must use at least TWO different sources.

*Research Question:*

SOURCE Example:

*Title of Page:* **Do Melting Ice Caps affect salt levels?**

*Web Address:* **http://www.boulderweekly.com/legacy/earthtalk/do-melting-ice-caps-affect-salt-levels/**

*Author/Publisher Name:* **Boulder Weekly- by EarthTalk**

 *Notes from Source:*

* **the melting of the polar ice caps as a result of global warming is sending large amounts of freshwater into the world’s ocean**
* **The Gulf Stream keeps running because the warmer water travelling north is lighter than cold water**
* **Researchers from Britain’s National Oceanography Center have noticed a marked slowing in the Gulf Stream since the late 1950s.**

**SOURCE #1:**

*Title of Page: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Web Address:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Author/Publisher Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

 *Notes from Source:*

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**SOURCE #2:**

*Title of Page: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Web Address:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Author/Publisher Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

 *Notes from Source:*

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**SOURCE #3:**

*Title of Page: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Web Address:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Author/Publisher Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

 *Notes from Source:*

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**Step 3)** Writing! It is officially time to answer your question. Compile all of your research together to answer your research question. Think of this writing assignment as you would a CER response. Write your final response on the next page to hand in.

Your response will be graded in multiple areas, make sure it is/has the following

 (If you ask yourself, “My response …” and can answer “yes”)

* Fills all lines up to the star
* Makes a claim (restate your question as a sentence with the answer)
* Summarize all of your in research in your own words
* Cite/ refer to your sources (example: According to the article by Joe Schmoe, The webpage titled Space Science stated, etc)
* Explain how your information answers the question
* Restate your claim/ have a conclusion statement
* Check for spelling mistakes
* Capital letters
* Can Ms. B actually read my handwriting?
* If you completed all of the above, hand in your work!

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisory: \_\_\_\_\_\_**

**6/15/16**

**Independent Research Response**

**Research Question:**

Answer: