**ABCDE Paragraphs – To Write a Scientific Conclusion**

**Here are the steps to writing a conclusion. Remember: ABCDE**

1. **Assertion: Make a claim!** A statement that answers the original focus question or problem. What conclusion can you make about your original focus question or problem?
2. **Background:** Written summary of experiment. Often, diagrams help!
3. **Citation:** If there is a data table or graph, compare two data numbers to each other to prove whether your hypothesis was supported or refuted. Refer to the text by “Title” and define the scientific term.
4. **Discussion:** Why did the data turn out the way it did? Relate the scientific concept to the data or lab.
5. **End/Extension**: Conclude your paragraph.

(A)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(State Your Claim: Repeat Part of the Question)

(B) In the lab, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Write a short description of what we did in the lab)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(C)According to (or As stated in) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

(“Title” of text)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is defined as

(The science term involved)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(Define the science term)

As shown in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

(Title of Figure, Table, or Graph)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(Data will be the numbers from the experiment!)

(D) In the lab, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(Connect the scientific term to what you saw in the lab.)

(E) In conclusion, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(Rephrase your claim.)

**Sound Like a Scientist!**

**Topic Sentences:**

Ex 1) Water bottle rockets are able to propel into the air due to Newton’s three laws of motion.

Avoid saying things like “I will tell you about” or “My paragraph is about”.

**Use Scientific Words**

Ex 1) The molecules dissolved in the water OPPOSED TO They spread out.

Anytime you can use a scientific word, use it!

**Specific nouns! (avoid using it, them, they, etc.)**

Lab Question: What is the relationship between the temperature of the solvent and the rate of dissolving of a solid? Why is this?

Ex 1) At a higher temperature, the rate of dissolving increasing because the molecules are moving around faster and bumping into each other more.

By using the words “rate of dissolving” instead of “it” and using “the molecules” instead of “they”, the reader gets a much better understanding of what the writer is trying to say.

**Repeat part of the question. (RPQ)**

Ex 1) As the temperature of the solvent increases, the rate of dissolving of a solid increases.

This example repeats part of the question and allows the student to actually answer the question being asked. Take the time to really think about what the question is asking. In this case, the question is about the rate of dissolving. The question asks about the rate of dissolving. Therefore, you must talk about the rate of dissolving in your answer.

**Write in complete sentences!**

**Write in the third person.**

Unless the question specifically uses the word “you” or “your”, avoid using words such as I, me, my, mine, our, we, etc. Scientists write about things based on evidence,

Ex 1) Rockets are able to take flight due to Newton’s three laws of motion.

Scientists avoid making things personal. Instead of “my rocket”, a scientist would simply say “rockets”.

**Use transitions!**

Ex 1) As the temperature increases, the rate of dissolving increases. **This occurs** because the molecules move around faster and bump into each other more. **In this experiment**, **this was shown** when the sugar dissolved faster in the hot water than in the cold water.

By using these transitions, the reader can see how each sentence is connected. Without these transitions, each sentence seems separate from one another.

Science Transitions: In conclusion, According to, As stated in, Therefore, Thus, In turn, In the experiment, As \_\_\_\_\_\_\_\_ increases, Moreover, Furthermore, In addition, etc.