- B			Name
		50000	Date
6115	51	02270	Period

Your lab report should include all of the following. You should number and name each step and follow the directions given to complete the investigation.

- **<u>1. Activate Prior Knowledge</u>**: Write a 4-8 sentence LAPS summary of the "Needs of Seeds" information given to you.
- **<u>2. Question</u>**: Write the question for this lab on your paper. The question for this investigation is "What is the most important abiotic factor needed for seeds to germinate?"
- **<u>3. Hypothesis:</u>** Write your Hypothesis as an "I think \_\_\_\_\_\_ because \_\_\_\_\_" statement.

## 4. Experiment:

Materials:

- a. This is a list of equipment, materials, etc. needed to perform the investigation.
- b. This list should be numbered, neat, and organized.

Procedure:

- a. This is a numbered, step-by-step set of instructions of EXACTLY what you did or will do to test your hypothesis.
- b. Only one direction per step.
- c. State your variable, controls, and how you will use your materials.
- **5. Collect Data:** Include all daily measurements or observations in a table or chart.

## 6. Analyze Data:

- a. Describe any patterns, trends, or similarities in your collected data.
- b. Describe why you think the result turned out the way it did.
- c. Discuss any data that doesn't seem to belong. What errors did you make?

## 7. Conclusion:

- a. Discuss whether or not your data supports your hypothesis.
- b. What did you learn from this investigation?
- c. Use CEAL paragraph

## 8. Share

- a. All <u>final</u> reports must be neatly written or typed.
- b. No errors, scribble-outs, typos, or spelling errors. This is a PERFECT document.
- c. You can create a public display (Powerpoint, Poster, Educreations, Speech, etc.) to share your information.

Standard	Scientific Process Steps	3-Proficient	4-Advanced
Reading Knowledge		Summarize information from introduction in 4-8 complete sentences using LAPS. Include the definitions of all bold vocabulary words.	Incorporate and define abiotic factors in your summary, use additional sources of information
	Generate a Question	Given to you.	
1.1	Create a Hypothesis	I think because statement	
1.1	Conduct an Experiment	repeatable procedure, identifying and	
1.2	<b>Collect Data</b> Record and visually display data accurately in a chart		Include the data from two other students in ou chart
1.3	Analyze Data 4-8 complete sentences looking for patterns within your data, an explanation why you think you got this data, and the errors that occurred.		Describe the patterns that are similar with your data and the data of two other students.
1.5 Writing	Make Conclusions	CEAL paragraph describing whether or not your data supports your hypothesis and links your research to a new investigation.	Identify strengths and weaknesses in your lab design and discuss accuracy in data collection
Work Ethic	Share	Final write-up is free of errors and neatly written.	Some form of public display of data such as a Science Project Display, Powerpoint, Educreations, etc.