

Student Name: _____

Date: _____

Section 1: Multiple Choice

1. Which best describes Data Analysis?

- A simple observation
- A complex scientific concept
- A math formula
- A social study

2. Higher-level analysis requires:

- Just reading
- Data, evidence, and reasoning
- Memorization only
- Creative writing

3. Scientific models are useful because:

- They are always correct
- They simplify complex systems
- They eliminate all error
- They replace experiments

4. Peer review improves science by:

- Slowing down publication
- Having experts evaluate research
- Making all results public
- Removing data

5. Advanced lab procedures require:

- Safety, precision, and repeated trials
- Only one measurement
- Skipping the control
- Avoiding calculations

Section 2: Short Answer

1. Explain the difference between mean, median, and mode. When is each most useful?

2. Describe the lab activity and what you expected to find: Import real climate dataset; create charts; identify trends

3. How does Data Analysis connect to what you learned previously in science?

Multiple Choice Answers:

1. B
2. B
3. B
4. B
5. A