

Student Name: _____

Date: _____

Section 1: Multiple Choice (25 pts)

1. What is the primary focus of Technology & Engineering Design?

- A) Math
- B) Science concepts
- C) Art
- D) History

2. Which best describes the scientific method?

- A) Guess and check
- B) Observe, hypothesize, experiment, conclude
- C) Only experiments
- D) Reading textbooks

3. Data should be recorded:

- A) After the experiment
- B) During observations
- C) From memory
- D) From the teacher

4. A controlled experiment has:

- A) No variables
- B) One independent variable
- C) All variables changed
- D) Random procedures

5. Evidence in science must be:

- A) Repeated and testable
- B) Perfect
- C) From one source
- D) Guessed

6. In this unit on Technology & Engineering Design, we learned:

- A) Nothing new
- B) Key concepts in science
- C) Only math
- D) History facts

7. Lab safety includes:

- A) Running near chemicals
- B) Wearing goggles
- C) Tasting unknowns
- D) Working alone always

8. The dependent variable is:

- A) What you change
- B) What stays the same
- C) What you measure
- D) Your hypothesis

9. A graph helps scientists:

- A) Guess results
- B) Visualize and interpret data
- C) Avoid calculations
- D) Skip analysis

10. Conservation of mass means:

- A) Mass is created
- B) Mass disappears
- C) Total mass stays constant
- D) Mass changes form

Section 2: Matching (10 pts)

1. Simple Machines

A. What we study in Unit 1

2. Intro to Coding

B. The variable you change

3. Digital Literacy

C. What stays the same

4. STEM Capstone

D. What you measure

5. Conclusion

E. Connects data to hypothesis

Section 3: Show Your Work (10 pts)

1. Describe the most important concept from the Technology & Engineering Design unit in your own words.

2. Design a simple experiment related to Technology & Engineering Design. Include IV, DV, and one constant.

3. Explain what you would do if your results did NOT support your hypothesis.

Multiple Choice:

1. B
2. B
3. B
4. B
5. A
6. B
7. B
8. C
9. B
10. C