



Trevor G. Browne High School Science Assessment — Fall 2025

Course: General Science

Date Assigned: October 7, 2025

Due: Friday, Oct. 17, 2025 (11:59 PM)

Format: Take-Home Assessment

Total Points: 50

Instructions

- Answer all questions. Circle choices clearly for multiple-choice.
- For short answers and True/False, include a brief reason where requested.
- No calculators needed. Keep responses concise and legible.

A. Multiple Choice

(10 questions \times 2 pts = 20 pts)

Circle the best answer.

A.1. Water boils at sea level at approximately ... [2]

- (a) 0°C
- (b) 50°C
- (c) 100°C
- (d) 150°C

A.2. The Earth orbits the ... [2]

- (a) Moon
- (b) Mars
- (c) Sun
- (d) Polaris

A.3. Photosynthesis primarily uses which gas from air? [2]

- (a) Oxygen
- (b) Nitrogen
- (c) Carbon dioxide
- (d) Helium

A.4. A magnet most strongly attracts ... [2]

- (a) Aluminum
- (b) Iron
- (c) Wood
- (d) Plastic

A.5. Best tool to measure the length of a pencil is a ... [2]

- (a) Thermometer
- (b) Balance
- (c) Ruler
- (d) Stopwatch

A.6. The main function of the human heart is to ... [2]

- (a) digest food
- (b) pump blood
- (c) filter air
- (d) control movement

A.7. Which state of matter has a fixed volume but no fixed shape? [2]

- (a) Solid
- (b) Liquid
- (c) Gas
- (d) Plasma

A.8. Which device completes a circuit by opening/closing it? [2]

- (a) Battery
- (b) Bulb
- (c) Wire
- (d) Switch

A.9. Which part of a plant mainly absorbs water from soil? [2]

- (a) Leaves
- (b) Stem
- (c) Roots
- (d) Flower

A.10. Which change is physical, not chemical? [2]

- (a) Rusting iron
- (b) Ice melting
- (c) Burning paper
- (d) Baking a cake

B. Short Answer & Reasoning

(5 questions \times 4 pts = 20 pts)

Answer in one or two sentences and add a brief reason (2 pts fact + 2 pts reasoning).

- B.1.** What is a *habitat*? Give one example. [4]
- B.2.** Name two *renewable* energy sources. [4]
- B.3.** Why does a wooden block float more easily than a steel bolt of the same size? [4]
- B.4.** Describe *evaporation*. Where in everyday life do you see it? [4]
- B.5.** What role do *lungs* play in the human body? [4]

C. True/False (MCQ style) & Reasoning

(5 questions \times 2 pts = 10 pts)

Circle **T** or **F**. Then write a short reason (1 pt correctness + 1 pt reasoning).

- C.1.** Plants make their own food using sunlight in photosynthesis. [2]
T F Reason:
- C.2.** Sound cannot travel through solids. [2]
T F Reason:
- C.3.** The Sun is a star. [2]
T F Reason:
- C.4.** Dissolving table salt in water creates a new substance with different chemical identity. [2]
T F Reason:
- C.5.** Electric current is measured in volts. [2]
T F Reason: