

The People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
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Faculty of Science and Technology
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TD 01 – TCE “Scientific Terminology”

Exercise 1: Match the Definition

Match each scientific term with its correct definition.

1. **Hypothesis**
2. **Photosynthesis**
3. **Atom**
4. **DNA**
5. **Gravity**
6. **Ecosystem**
7. **Molecule**
8. **Homeostasis**
9. **Thermodynamics**
10. **Evolution**

- A. The basic unit of a chemical element.
- B. The process by which plants use sunlight to produce energy.
- C. A testable explanation for a scientific question.
- D. The study of heat and energy transfer.
- E. The natural force that attracts objects toward the center of the Earth.
- F. A group of interacting organisms and their physical environment.
- G. The ability of living organisms to maintain stable internal conditions.
- H. The molecule that carries genetic information in living organisms.
- I. A group of atoms bonded together.
- J. The gradual change in species over time.

Exercise 2: Fill in the Blanks

Complete the sentences with the correct scientific term.

1. The smallest unit of life is called a _____.
2. The study of living organisms is known as _____.
3. In physics, _____ is the ability to do work.
4. The branch of science that studies matter and its interactions is _____.
5. The human body's ability to regulate its internal temperature is an example of _____.
6. The study of celestial bodies such as stars and planets is called _____.
7. The genetic code that determines an organism's traits is stored in _____.
8. In chemistry, a _____ is a substance made of two or more different elements.
9. The process by which species change over time is known as _____.
10. The force that pulls objects towards the Earth is called _____.

Exercise 3: True or False

Determine whether the following statements are true or false.

1. The scientific method always begins with forming a conclusion.
2. Water (H₂O) is an example of a molecule.
3. Cells are made up of tissues.
4. An independent variable in an experiment is the one being measured.
5. The speed of light is slower than the speed of sound.
6. Genetics is the study of heredity and the variation of organisms.
7. The sun is a planet.
8. Chemical reactions involve the rearrangement of atoms.
9. The nucleus is the control center of a cell.
10. Oxygen is a compound.

Exercise 4: Word Association

Write a scientific term that relates to each of the following words.

1. **Temperature** → _____
2. **Light** → _____
3. **Energy** → _____
4. **Cell division** → _____
5. **Chemical bond** → _____
6. **Heredity** → _____
7. **Force** → _____
8. **Acid** → _____
9. **Planetary motion** → _____
10. **Electric charge** → _____