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**\*\*Question:\*\*** What is the fundamental process at the core of scientific inquiry?

- A) The formulation of theories
- B) The scientific method
- C) The analysis of data
- D) The observation of natural phenomena

**\*\*Correct Answer:\*\*** B) The scientific method

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**\*\*Question:\*\*** The discovery of penicillin by Alexander Fleming is an example of:

- A) The interconnectedness of disciplines
- B) The power of technology in science
- C) A scientific breakthrough that transformed our understanding of reality
- D) The importance of inspiring future generations

**\*\*Correct Answer:\*\*** C) A scientific breakthrough that transformed our understanding of reality

3

**\*\*Question:\*\*** How does technology contribute to scientific advancement?

- A) It provides funding for research projects.
- B) It enhances our ability to explore and understand the universe.
- C) It promotes collaboration between scientists.
- D) It simplifies scientific concepts for the general public.

**\*\*Correct Answer:\*\*** B) It enhances our ability to explore and understand the universe.

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**\*\*Question:\*\*** Biochemistry, which merges biological and chemical principles, exemplifies:

- A) The role of technology in science
- B) The interconnectedness of disciplines

C) The power of the scientific method

D) The impact of science on society

**\*\*Correct Answer:\*\*** B) The interconnectedness of disciplines

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**\*\*Question:\*\*** According to the text, what is one way to inspire future generations to embrace science?

A) Emphasizing the memorization of scientific facts.

B) Limiting exposure to complex scientific concepts.

C) Promoting STEM education and fostering critical thinking.

D) Focusing solely on theoretical aspects of science.

**\*\*Correct Answer:\*\*** C) Promoting STEM education and fostering critical thinking.