

Question 1

Correct

Marked out of 1.00

 Flag question


What are the components of a scientific exposé or proposal?

- ☐ a. Personal opinions of the author
- ☒ b. Research method and preliminary outline ✓
- ☒ c. Problem statement and research objective ✓
- ☒ d. Preliminary literature list and timetable ✓

Question 2

Partially correct

Marked out of 1.00

 Flag question

Why is the hypothesis "If people drink 10 liters of water a day, they will be healthier" problematic and not scientifically correct?

- ☐ a. It is not verifiable.
- ☒ b. It contains an absolute statement that is not scientifically sound. ✓
- ☒ c. It is not verifiable because "healthier" is not clearly defined. ✓
- ☒ d. It ignores the fact that excessive water consumption can be harmful to health. ✓

Question 3

Correct

Marked out of 1.00

 Flag question

You want to structure and plan your work, but don't know which method to utilize. Which of the following methods could be helpful?

- ☒ a. Create a mind map to structure ideas and contexts. ✓
- ☒ b. Use the SMART method to define clear and achievable goals. ✓
- ☒ c. Create a Gantt chart to visualize the chronological order of tasks. ✓
- ☐ d. Start writing directly without using a method.

Question 4

Correct

Marked out of 1.00

 Flag question

Why is the problem statement a central component of a scientific proposal?

- ☐ a. It replaces the methodology of the work.
- ☒ b. It helps to define the objective of the research. ✓
- ☒ c. It shows why the research is relevant and necessary. ✓
- ☐ d. It already contains the solution to the problem.

Question 5

Correct

Marked out of 1.00

 Flag question

Why are research questions necessary in scientific papers?

- ☐ a. They replace the need for a hypothesis.
- ☐ b. They are general and open to interpretation.
- ☒ c. They give the work a clear direction. ✓
- ☒ d. They help to structure the research process. ✓

Question 1

Correct

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Flag question

What types of sources can be considered in the literature search?

- ☒ a. Scientific journal articles ✓
- ☐ b. News articles without scientific relevance
- ☐ c. Social media posts

The correct answer is: Scientific journal articles

Question 2

Correct

Marked out of 1.00

Flag question

What mistakes can be made in a literature review that could lead to an inadequate basis for the Bachelor's thesis?

- ☐ a. Inclusion of data from different scientific disciplines
- ☒ b. Neglect of older studies and alternative perspectives ✓
- ☒ c. Limiting the search to the first hits from Google. ✓
- ☒ d. Use of non-peer-reviewed sources ✓

The correct answers are: Neglect of older studies and alternative perspectives, Use of non-peer-reviewed sources, Limiting the search to the first hits from Google.

Question 3

Correct

Marked out of 1.00

Flag question

Which of the following characteristics indicate that a paper could be a suitable source for your scientific work?

- ☐ a. The paper is published in a popular journal.
- ☒ b. The paper is published in a reputable peer-reviewed journal. ✓
- ☐ c. The paper uses many speculative or unreasonable conclusions.
- ☒ d. The paper contains clear research questions, methods and results. ✓

The correct answers are: The paper contains clear research questions, methods and results., The paper is published in a reputable peer-reviewed journal.



Continue correctly: A hypothesis...



a. should be clearly and precisely formulated to define the focus of the investigation.



☒ b. is a preliminary assumption that can be tested. ✓



☐ c. must always be supported by prior research or evidence.



☐ d. is immutable and cannot be supported or refuted by empirical research.

Is the following statement a valid hypothesis?

"As a person's level of education increases, their use of social media decreases."



☐ a. Yes, because it is an unidirectional hypothesis.



☒ b. Yes, because it is a directional hypothesis. ✓



☒ c. Yes, it is falsifiable, as empirical data could disprove that this correlation does not exist. ✓



Which of the following statements are important steps in planning a scientific paper?

- ☒ a. Creating a schedule with buffer times ✓
- ☒ b. Carrying out a systematic search for relevant literature ✓
- ☒ c. Determining the final results of the study ✗
- ☒ d. Determining the research objective and the research question ✓

Someone would like to answer the following research question in the bachelor thesis:

"How can the strength of metals be improved? "

Do you think this research question needs to be revised?

- ☒ a. Yes, the question is unclear as to which specific metals, alloys or applications should be investigated. Strength may refer to different mechanical properties and contexts that require precise delineation. ✓
- ☒ b. Yes, the question is formulated too generally and does not identify a specific problem or challenge. ✓
- ☐ c. Yes, as it is recommended to formulate the research question openly, as a "W-question".