1.2 Why do we study Biology?

Part Two

True/False Questions

1. Biology helps us understand how living things work and interact with their environment.
2. Fermentation is only used in wine-making and not in any other food production.
3. Penicillin is an antibiotic that was discovered from fungi.
4. The production of cheese depends on fermentation processes by microorganisms.
5. Citric acid and lactic acid can only be produced artificially in chemical factories, not by microorganisms.
6. Forensic biology uses DNA analysis to help solve crimes.
7. Biologists use the scientific method to study the natural world by asking questions and testing hypotheses.
8. Observations in science can only be made directly using our sense organs.
9. A hypothesis is a testable explanation for a scientific question.
10. If a hypothesis is not supported by experimental data, it must be kept unchanged.

LIVEWORKSHEETS

11. Any valid scientific experiment must be repeatable by other scientists.

12. Biologists communicate their findings through scientific journals.

13. Global warming and environmental issues are unrelated to biology.

14. Fermentation is also used in baking bread.

15. A hypothesis that has been rejected can never be replaced with a new one.

Match the items in Column "A" with the correct answer in Column "B". Put the correct number in the space provided.

Column A	**Column B**
1. Fermentation in wine-making	…….. Mould fungi or bacteria
2. Bread baking	…….. Yeast and bacteria in food processing
3. Cheese production	…….. Yeast action in dough
4. Penicillin	…… Helps societies evaluate environmental issues
5. Citric acid production	……. Step involving direct or indirect sensing of phenomena
6. Lactic acid production	…… Proposed explanation for a question

LIVEWORKSHEETS

7. Sewage disposal …… Testing the hypothesis through experiments

8. Forensic biolog …….. Publishing results in journals

9. DNA structure discovery …….. Yeasts or fungi used in dairy processing

10. AIDS, tuberculosis, cancer Treatment …….. Analysis of DNA from crime scenes

11. Observation (in scientific method) ……. Scientists Watson & Crick's discovery

12. Hypothesis ……. Bacteria used in filter beds

13. Experimentation ……. Biological studies in medicine

14. Communicating findings ……. Bacteria or fungi producing chemicals

15. Global warming studies …….. Yeasts used in alcoholic drink production

LIVEWORKSHEETS