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INSIDE THE MIDDLE YEARS BOOK OF SCIENCE TESTS

'I wish I had a convenient, fast way to assess basic skills and standards.'

'If only I had a way to find out what my students already know about science!'

'If only I had a good way to find out what my students have learned!'

'How can I tell if my students are ready for assessments?'

'It takes too long to create my own tests on the units I teach.'

'The tests that come with my textbooks are too long or dull.'

'I need tests that cover all the skills on a topic – not just a few here and there.'

This is what teachers tell us about their needs for testing materials. If you, too, are looking for quality, convenient materials that will help you gauge how well students are moving along towards mastering basic skills and standards – look no further. This is a book of tests such as you've never seen before. It's everything you've wanted in a group of ready-made science assessments for middle years students.

- The tests are student-friendly. One glance through the book and you will see why. Students will be surprised that it's a test at all! The pages are inviting and fun. Four inquisitive scientists ramble through the pages, leading students through unique and interesting challenges and investigations. Your students will not groan when you pass out these tests. They'll want to stick with them all the way to the end to see where the STOP sign is this time!
- The tests are serious. Do not be fooled by the catchy characters and visual appeal. These are serious, thorough assessments of basic content. As a part of the Basic Not Boring Skills Series, they give broad coverage of skills with a flair that makes them favourites of teachers and kids.
- The tests cover all the basic skill areas for science. There are 23 tests within 5 areas: science concepts and processes; life science; human body and health; physical science; and earth and space science.
- The tests are ready to use. In convenient and manageable sizes, each test covers a skill area (such as body systems or changes in matter) that should be assessed. Just give the pages to an individual student, or make copies for the entire class. Answer keys are easy to find and easy to use.
- Skills are clearly identified. You can see exactly which skills are tested by reviewing the list of skills provided with each group of tests.



LIFE CHARACTERISTICS & PROCESSES

Name _____

Possible Correct Answers: 40

Date _____

Your Correct Answers: _____

Attention, students



1. Which of these characteristics is not necessarily a characteristic of living organisms only?

- A. It takes in food or substances to make food.
- B. It has a life span: it grows, develops and dies.
- C. It gives off wastes produced by the cells.
- D. It is made up of matter.
- E. It needs water to survive.
- F. It reproduces itself.
- G. It is made up of one or more cells.
- H. It responds to its surroundings.
- J. It uses energy for its activities.

2. The three basic elements that make up living substances are

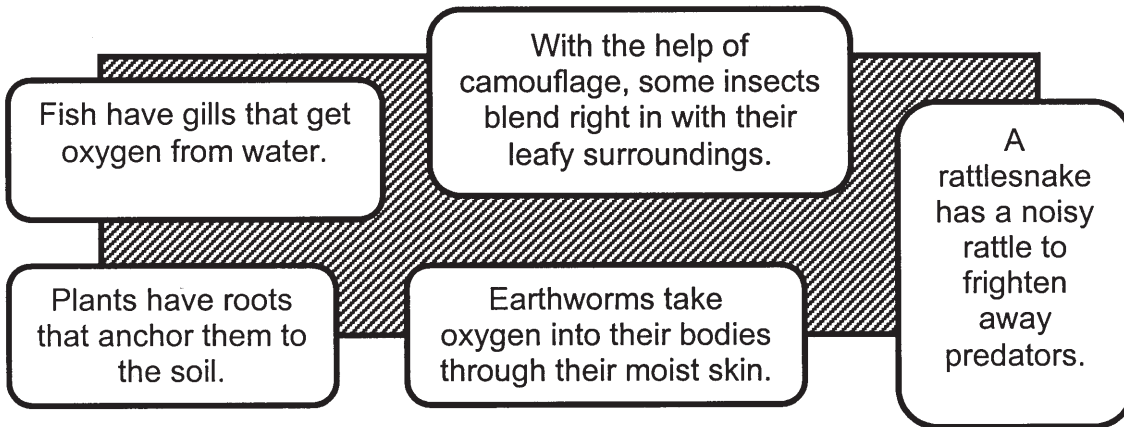
- a. oxygen, hydrogen and nitrogen
- b. air, water and blood
- c. water, muscles and vessels
- d. oxygen, hydrogen and carbon
- e. sodium, hydrogen and oxygen
- f. carbon, copper and hydrogen

3. Which statement below is correct? _____

A.
Water makes up 99% of most living things.

B.
Water makes up 50% of most living things.

C.
Water makes up 70% of most living things.

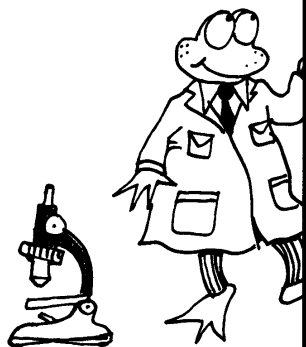


4. The descriptions above are all examples of
- a. reproduction
 - b. instinct
 - c. adaptation
 - d. fertilisation
 - e. active transport

5. Name two ways a plant uses energy:

6. Name two ways an animal uses energy:

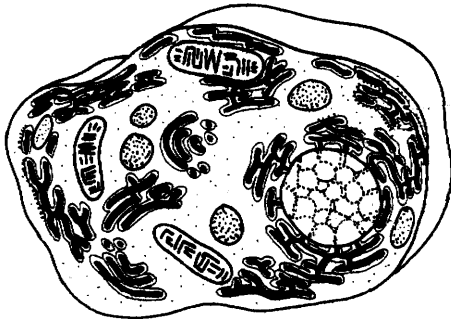
Write T (true) or F (false) for each statement.



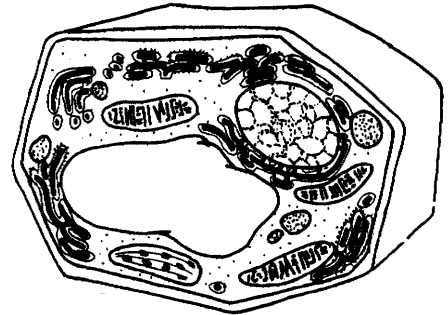
- ___ 7. All organisms are made of many cells.
- ___ 8. All cells contain a cell membrane and a cell wall.
- ___ 9. All cells are produced from other cells.
- ___ 10. The chromosomes carry a code in each cell.
- ___ 11. The cell membrane controls movement of materials in and out of the nucleus.
- ___ 12. All cells have a similar function in the organism.
- ___ 13. The cell's cytoplasm contains the cell materials.
- ___ 14. Some cells can be seen without a microscope.
- ___ 15. A molecule is the basic unit of every living organism.

16. Which cell below is a plant cell? _____

17. Which cell below is an animal cell? _____



Cell A



Cell B

18. In a cell, the **chloroplast**

- a. surrounds the plant cell and gives it shape.
- b. stores and releases chemicals for cell use.
- c. controls chlorophyll to help the cell trap light to make food.
- d. holds the code that controls the cell.

19. In a cell, the **mitochondria**

- a. store water and dissolved materials.
- b. control the movement of materials in and out of the cell.
- c. make proteins.
- d. release energy for cell use.



20. Which controls the cell's activities?

- a. cytoplasm
- b. nucleus
- c. cell wall
- d. cell membrane

21. Which is a tube network in cytoplasm where the cell substances are made?

- a. endoplasmic reticulum
- b. ribosomes
- c. Golgi bodies
- d. mitochondria