

PLANIT Introduction to General Science and Scientific Methods

Introduction to General Science
Read the following introduction to General Science and answer the questions that follow:
Welcome to the General Science and Scientific Methods assessment. This 30-minute assessment is designed to evaluate students' understanding of basic science concepts, recognition of scientific tools and equipment, and comprehension of simple scientific processes.
1. What is the primary function of the sense of sight?
2. What type of rock is formed from the cooling and hardening of molten lava?
3. Which simple machine is used to lift heavy objects?
Scientific Tools and Equipment
Identify and describe the following scientific tools and equipment:
Microscope
Page 1 of 7
Thermometer
Hygrometer

Simple Scientific Processes
Explain the following simple scientific processes:
1. Photosynthesis
2. Respiration
3. Evaporation
Image-Based Questions
Identify and describe the following images:
Plant cell
Water cycle
Day and night
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	: Answer Questions
	er the following short answer questions:
1.	Describe the main parts of a microscope and their functions.
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2.	What is the purpose of a thermometer in scientific experiments?
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3.	Explain the difference between a magnet and a non-magnet.
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Marking Guide

Use the following marking guide to assess your answers:

- Section 1: 1 point for each correct answer
- Section 2: 1-5 points for each answer, depending on the quality and completeness of the response
- Section 3: 1-5 points for each answer, depending on the quality and completeness of the response

Implementation Guidelines

Follow these implementation guidelines to administer the assessment:

- Time allocation: 30 minutes
- Administration tips:
 - Ensure students have access to pencils, erasers, and sharpeners.
 - Provide a quiet and comfortable testing environment.
 - Emphasize the importance of reading each question carefully and answering to the best of their ability.
 - Encourage students to ask questions if they are unsure about any aspect of the assessment.

Differentiation Options

Use the following differentiation options to support students with different needs:

- For students with visual impairments:
 - Provide large print or braille versions of the assessment.
 - Offer assistive technology, such as text-to-speech software.
- For students with learning difficulties:
 - Provide extra time to complete the assessment.
 - o Offer one-on-one assistance or a reader/scribe.
- For English language learners:
 - o Provide a bilingual version of the assessment.
 - Offer a dictionary or glossary of key terms.

Clear Success Criteria

Use the following clear success criteria to evaluate student learning:

- Students will be able to identify and describe basic science concepts.
- Students will be able to recognize and explain the functions of scientific tools and equipment.
- Students will be able to understand and describe simple scientific processes.

Evidence Collection Methods

Use the following evidence collection methods to assess student learning:

- Student responses to multiple-choice questions.
- Student responses to short-answer questions.
- Student responses to image-based questions.

Feedback Opportunities

Provide feedback opportunities to students using the following methods:

- Immediate feedback on multiple-choice questions.
- Feedback on short-answer questions and image-based questions within one week of completion.
- Opportunities for students to reflect on their own learning and set goals for future assessments.