

Introduction (5 minutes)

Read the introduction to the assessment and understand the objectives.

This assessment is designed to evaluate students' understanding of simple machines and mechanisms, their ability to recognize and name different types, and describe how they make things move. The assessment aims to identify and explain the role of inventors in creating machines and mechanisms, as well as demonstrate an understanding of how machines and mechanisms are used in everyday life.

Section 1: Multiple Choice Questions (10 minutes)

Choose the correct answer for each question.

1. What is the main function of a lever?
 - a. To lift heavy objects
 - b. To move objects from one place to another
 - c. To change the direction of force
 - d. To increase the speed of an object
2. Which of the following is an example of a simple machine?
 - a. A car
 - b. A bicycle
 - c. A wheelbarrow
 - d. A robot

Section 2: Short Answer Questions (15 minutes)

Answer each question in complete sentences.

1. Describe how a pulley system works.

2. What is the difference between a simple machine and a complex machine?

Section 3: Essay Questions (20 minutes)

Answer each question in complete sentences.

1. Explain the role of inventors in creating machines and mechanisms. Provide examples of famous inventors and their contributions.

2. Describe how machines and mechanisms are used in everyday life. Provide examples of how they make our lives easier.

Section 4: Practical Task (30 minutes)

Design and create a simple machine using everyday materials.

Task:

Design and create a simple machine that can perform a specific task (e.g. lifting a small object, moving an object from one place to another, etc.).

[Space for practical work]

Section 5: Matching Game (5 minutes)

Match the simple machines with their descriptions.

Match the following simple machines with their descriptions:

- Lever
 - Pulley
 - Wheel and Axle
 - Inclined Plane
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1. A machine that uses a wheel and a rope to change the direction of force
 2. A machine that uses a sloping surface to lift heavy objects
 3. A machine that uses a bar or beam to lift or move objects
 4. A machine that uses a rotating wheel to reduce friction

Section 6: Word Search (5 minutes)

Find and circle the words related to simple machines and mechanisms.

Find and circle the following words:

- Lever
- Pulley
- Wheel
- Axle
- Inclined Plane
- Inventor
- Machine
- Mechanism

[Space for word search]

Section 7: Conclusion (10 minutes)

Reflect on what you have learned about simple machines and mechanisms.

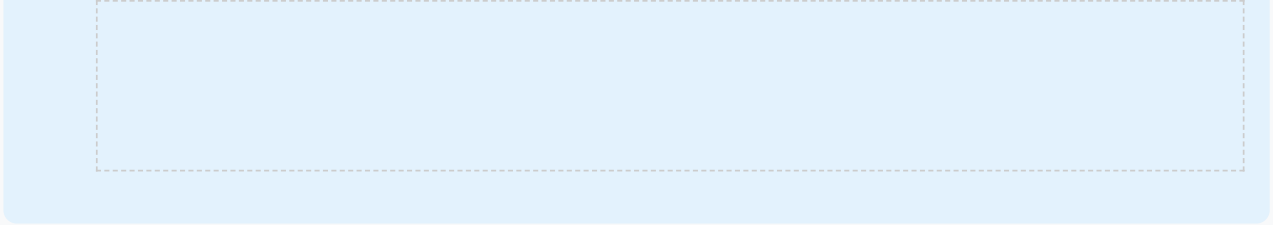
Individual Reflection:

1. What was the most surprising thing you learned today?

2. How will this learning change your actions in the future?

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3. What questions do you still have about simple machines and mechanisms?



Assessment Rubric

Understand the assessment criteria.

The assessment is designed to be completed within 60 minutes. The time allocation for each section is as follows:

- Multiple Choice Questions: 10 minutes
- Short Answer Questions: 15 minutes
- Essay Questions: 20 minutes
- Practical Task: 30 minutes
- Matching Game: 5 minutes
- Word Search: 5 minutes

The success criteria for the assessment are:

- To recognize and name different types of simple machines and mechanisms
- To describe how simple machines and mechanisms make things move
- To identify and explain the role of inventors in creating machines and mechanisms
- To demonstrate an understanding of how machines and mechanisms are used in everyday life

