

Simple Machines and Their Uses

Chapter 7: Simple Machines and Their Uses · Topic 1

Key Concept

A lever is a simple machine, like a see-saw, that helps us lift heavy objects with less effort by using a pivot point.

A pulley uses a wheel and rope to lift objects, commonly seen in wells or flagpoles, making lifting easier.

Wheels and axles help things move more easily, reducing friction, like the wheels on a cart or bicycle.

Simple machines have been used for centuries to make daily tasks like lifting, moving, and building easier and more efficient.

Quick Revision Notes

- A lever helps lift objects with less effort.
- A see-saw is an example of a lever.
- A pulley uses a wheel and rope to lift things.
- Wells and flagpoles use pulleys.
- Wheels and axles help things move easily.
- They reduce friction.
- Carts and bicycles use wheels and axles.
- Simple machines make tasks easier and efficient.

Practice Questions

- 1 Find an example of a lever at home.
- 2 Discuss how a pulley works.
- 3 Draw a wheel and axle example, like a bicycle.
- 4 Explain why wheels reduce friction.
- 5 Research another simple machine, like an inclined plane.
- 6 Discuss how simple machines make daily tasks easier.