

# Grade 9 Technology Mini PAT

## Term 2: Mechanical Systems

### Theme: Creating a Mechanical Toy Using Linkages or Gears

#### Case Study: The Toy Maker in Rural South Africa

In a small rural village in the Eastern Cape, a local engineer named Thabo creates toys using recycled materials. Many of his customers are local children whose families cannot afford to buy expensive toys. Thabo uses simple mechanical systems—like levers, gears and linkages—to make toys that move. He is passionate about using mechanical systems to bring joy and education to children. However, Thabo struggles with designing toys that are both fun and safe for children while using low-cost materials.

#### Mini PAT Overview

You are a young engineer tasked with helping Thabo design and make a new mechanical toy. The toy must use a mechanical system (gears, levers, coils or linkages) to produce movement. It must be:

- fun and attractive to children
- made from recycled or inexpensive materials
- safe to use
- able to demonstrate mechanical movement clearly

#### 1. Investigate

##### Learning goal:

- research different types of mechanical systems used in toys (e.g. levers, gears, linkages, coils)
- investigate at least 3 types of toys that use mechanical systems
- identify materials that can be reused or recycled to make the toy
- include diagrams and brief notes

Design the Mini PAT - Term 2 Mechanical Systems

Name \_\_\_\_\_

30 marks

Systems they will use:

30 marks

My model of their mechanical toy must (e.g. forming a handle using

with the design brief)

and marks: 10

## Project

30 marks

	Marks
Research	10
Design	10
Construction	10
<b>TOTAL MARKS</b>	<b>30</b>

	Marks
Research	10
Design	10
Construction	10
<b>TOTAL MARKS</b>	<b>30</b>

	Marks
Research	10
Design	10
Construction	10
<b>TOTAL MARKS</b>	<b>30</b>

**TOTAL MARKS** /30

## What can be made:

30 marks

A spring controls a mousetrap connected to a rotating wheel

Levers or wheels (gears, rollers)

How to lift the character

A mechanism that uses gears to

Use a gear, a spring and a weight

Released through the gear to

A linkage system. The motion is allowing it to appear to walk

A motor or hand-powered crank,

How, causing the robot's legs to

Design the Mini PAT - Term 2 Mechanical Systems

Control or powered with a small coil like a motor in a playground

Use or wheels (gears, rollers)

A motor to lift and lower one side

Use a gear, a spring and a weight

Use a gear, a spring and a weight

Levers for pulling, wheels directly

A lever force wheel, causing it to spin

Use a linkage system. The motion is allowing it to appear to walk

Use a motor or hand-powered crank,

How, causing the robot's legs to

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# Grade9 Technology Mini Pat

**G Psacharopoulos**



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## **Table of Contents Grade9 Technology Mini Pat**

1. Understanding the eBook Grade9 Technology Mini Pat
  - The Rise of Digital Reading Grade9 Technology Mini Pat
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade9 Technology Mini Pat
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Grade9 Technology Mini Pat
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade9 Technology Mini Pat
  - Personalized Recommendations
  - Grade9 Technology Mini Pat User Reviews and Ratings
  - Grade9 Technology Mini Pat and Bestseller Lists
5. Accessing Grade9 Technology Mini Pat Free and Paid eBooks
  - Grade9 Technology Mini Pat Public Domain eBooks
  - Grade9 Technology Mini Pat eBook Subscription Services

- Grade9 Technology Mini Pat Budget-Friendly Options
- 6. Navigating Grade9 Technology Mini Pat eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade9 Technology Mini Pat Compatibility with Devices
  - Grade9 Technology Mini Pat Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade9 Technology Mini Pat
  - Highlighting and Note-Taking Grade9 Technology Mini Pat
  - Interactive Elements Grade9 Technology Mini Pat
- 8. Staying Engaged with Grade9 Technology Mini Pat
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade9 Technology Mini Pat
- 9. Balancing eBooks and Physical Books Grade9 Technology Mini Pat
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade9 Technology Mini Pat
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade9 Technology Mini Pat
  - Setting Reading Goals Grade9 Technology Mini Pat
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade9 Technology Mini Pat
  - Fact-Checking eBook Content of Grade9 Technology Mini Pat
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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