

Medium Term Plan

Stunning Starter
 What do robots look like? NASA's use of robots to explore Mars.
 Make our own robots. Programming robot toys and 2D robots.

Term	Class	Teacher
Autumn 1	Kilmar	Mrs Morris

Writing Genre			
Story	Poetry	Non-chronological	Instructions
Newspaper reports	Letters/diary	Play scripts	Recount
Persuasive	Explanation	Biography	Autobiography

Fantastic Finish
 Children to create their own moving robots for a specific purpose

Speaking and Listening
Reading

- Word Reading
- Comprehension
- Writing**
- Phonics and Spelling
- Punctuation
- Vocabulary
- Sentence and Text
- Handwriting and Presentation
- Composition
- Story
- Information
- Poetry
- Science

- Working Scientifically - Planning
- Working Scientifically - Recording Evidence
- Working Scientifically - Conclusions

- Plants
- Animals, including Humans
- Life Processes
- All Living Things
- Habitats
- Everyday Materials
- Changing Materials
- Light and Sound

Electricity

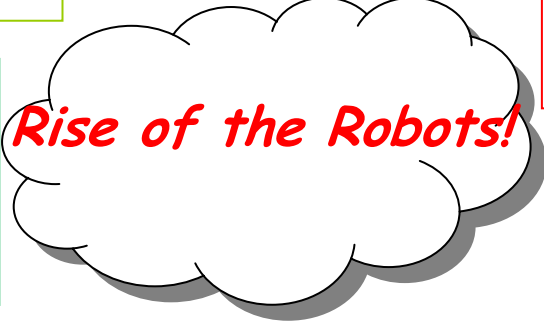
- Forces & Magnets
- Mathematics**
- Problem Solving
- Communicating
- Reasoning
- Number and Place Value
- Mental Maths
- Operations - Addition
- Operations - Subtraction
- Operations - Multiplication
- Operations - Division
- Written and Calculator Methods (KS2)

- Written Methods - Addition
- Written Methods - Subtraction
- Written Methods - Multiplication
- Written Methods - Division
- Fractions and Decimals (KS1)
- Fractions, Decimals, percentages (KS2)
- Algebra (KS2)
- Ratio and Proportion (KS2)
- Geometry - 2D Shapes
- Geometry - 3D Shapes
- Position and Direction (KS1)
- Position and Movement (KS2)
- Measures - Length
- Measures - Mass
- Measures - Capacity & Volume
- Measures - Time
- Statistics - Processing and representing data
- Statistics - Interpreting data

Newspaper report – Robot Wrecks Room!
 Warning story – Mum knows best
 Explanation text of ‘How a computer programme works’

SMSC – Which jobs should robots be allowed to do?
 How life like should humanoid robots be?

Eric Joyner- realistic backgrounds with robots on top
 Imagination
 Scale
 Perspective
 Sketching



Electricity- how to light a light bulb
 Insulators and conductors
 Predicting and testing
 Making Switches
 Drawing scientific diagrams
 Observing and investigating

When was the first robot invented?
 When and why have robots changed over time?
 Impact of robots on daily life
 Negative views from sources

Programming
 Direction
 Instructions
 What if...

Non-negotiables
British Values – Recognising the unique value of each individual. Develop the capacity for critical and independent thought.
Global Citizenship – Development of robots around the world. (Japan)

Gymnastics and Dance (Machines)
 Ball skills and net and wall

Maths Focus			
Problem-Solving Use & Application			
Number & Place Value	Mental Maths	Algebra	Geometry
Number Operations	Statistics	Ratio & Proportion	Measures
Written Methods	Fractions, Decimals & Percentages	Position & Direction	

Discrete subject
 RE- Christianity in Cornwall and New Testament stories

- Computing
- Finding Things Out
- Making Things Happen
- Programming
- Sharing & Reviewing
- Investigating and Exploring
- Art & Design**
- Drawing
- Painting

- 3D Modelling
- Printing
- Textiles

Design & Technology

- Design
- Make
- Evaluate
- Axles, Pulleys and Gears
- Electrical and Mechanical Components**

- Food Technology
- Mechanisms
- Structures
- Textiles

Geography

- Geographical Enquiry
- Geographical Skills & Fieldwork
- Location & Place Knowledge
- Human and Physical
- Sustainability

History

- Finding Out About the Past (Enquiry)
- Finding Out About the Past (Chronology)
- Historical Events
- Lifestyles of People in the Past
- Significant Historical People

Religious Education

- Learning about Religion
- Learning from Religion

Modern Foreign Languages

- Listening and Responding
- Speaking
- Writing

Physical Education

- Gymnastics
- Netball
- Dance
- Games
- Music