

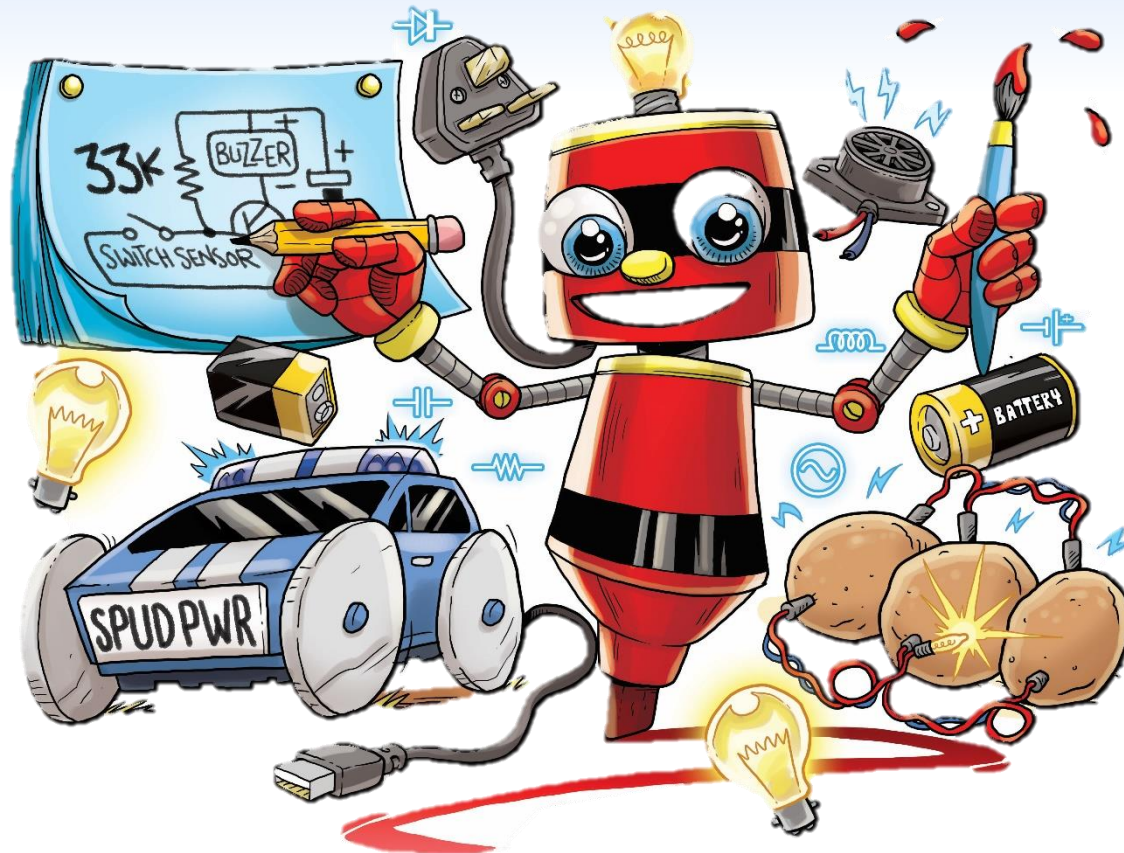


**St. Peter's**  
Catholic Primary School

# Art Bot (and other electronics challenges)

Lower Key Stage 2, Year A, Summer Term 1

7 weeks



## We put Jesus at the heart of everything that we do.

special kind unique inventive  
generous awesome gentleness  
purity helpful good positive  
expressive enjoyable caring  
adventurous bouncy zingy  
fun truth colourful superb  
confident polite compassion  
friendly enthusiastic marvellous  
comforting nice remarkable  
happy magnificent great  
meaningful forgiveness  
exceptional joy wonderful  
interesting creative hopeful  
incredible spectacular  
original brilliant peace  
lovely service outstanding  
dynamic amazing  
dignity fabulous impressive  
beautiful sacrifice  
gorgeous fantastic tolerance  
exciting terrific delicious  
integrity cool considerate  
phenomenal laughing funny  
sharing humility loving  
energetic smiling captivating  
justice encouraging mercy  
gracious faithful important  
supporting delightful thankful  
hard-working tremendous



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### The aims of our curriculum:

- We aim to be like Jesus the teacher, where all children learn to be good, inquisitive learners, capable of making our world a better place. Like Jesus our shepherd, no child will be left behind.
- We want our children to know more and remember more
- We aim to provide our children with a broad curriculum, rich with cultural capital.
- We aim to teach what is required from the National Curriculum as a minimum.
- We aim to create a curriculum that is teachable, clear and practical where possible.
- We want all of our children to progress so that they can tell us about their own progression in learning.
- We want our children to be able to tell us why they are learning what they are learning.

*“And people will come from east and west, and from north and south, and recline at the table in the kingdom of God.”*

*Luke 13:29*

# Our Curriculum Drivers:

**Catholic Social Teaching**

See activity below: -  
Caritas in Action – Rights and responsibilities

**Our Resilience**

Use a power tool  
See 'Try New Things' activity below.  
Children to build a rack on which they can store wellies.

**Our Community**

Learn about the design and creation process of an Electric Car from the JLR team visit.

Learn about the importance of the car industry in Leamington Spa. Find out which other industries are thriving in Leamington.

**Sustainability**

Learn about why EVs are seen as a sustainable option.

What are the drawbacks to a sustainably society?

**Diversity and inclusion**

# Art Bot:

## As Historians, we will:

- Learn about electronics
- Explore how to combine our knowledge of electrical circuits with design to create a variety of fun and useful products

We will combine motors with other materials to create an 'Art Bot' which will dance around a piece of paper, drawing as it goes.

We will discover Potato Power - how potatoes may be used to create electricity that can power a small LED (light emitting diode).

We will combine our knowledge of mechanisms with our knowledge of circuits and create an electric car. It will be put through its paces, having to climb steep slopes, so we will need to use our knowledge of friction to make sure it meets the challenge.

Finally, we will use our knowledge of circuits to create an intruder alarm.

Throughout all of our challenges and tasks we will need to consider the purpose of our work, and design, make and constantly evaluate and refine our products so that they improve over time.

We will also use a range of practical skills and improve the presentation of our products.

## As writers we will:

- Write explanations about our designs
- Write persuasively to seek funding for our designs
- Present information about the link between science and design

## As artists we will:

- Draw, paint, sculpt, create textiles or digital media, as appropriate, to give good quality finishes to our products
- Enjoy an enhancement visit from the JLR design team, learning about the different stages of designing a car.

## As scientists we will:

- Identify common appliances that run on electricity.
- Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.
- Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.
- Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.
- Recognise some common conductors and insulators, and associate metals with being good conductors.