

My Electronic Invention Project

Learning objective: To design and explain the function of an electronic product using simple circuits.

Use this writing frame to describe your invention. Think about how Max the monkey would use maths to measure his components and how Kit the fox would plan the clever circuit layout.

My invention is a brilliant electronic device designed to help people in their everyday lives by...

Word bank: circuit · switch · battery · component · bulb · buzzer · conductive · firstly · consequently · furthermore · therefore · in addition

1. What is the purpose of your invention and who will it help? Start your sentence with: The primary purpose of my invention is... (2 marks)

2. Which electronic components will you use to make it work? Explain your choice by saying: To ensure the device functions correctly, I have chosen to include... (3 marks)

3. How will the circuit be controlled? Describe your switch by saying: The circuit is controlled by a switch which works by... (2 marks)

4. What materials will you use for the outer casing? Think about safety and style: The casing will be made from... because it is... (2 marks)

5. How much might it cost to produce one unit? Use your maths skills: If the battery costs £1.50 and the other parts cost £2.25, the total cost would be... (2 marks)

Extension challenge: Draw a clear, labelled diagram of your circuit. Use standard symbols for the battery, bulb, and switch to show Kit the fox how your invention connects together.