DT Knowledge Organiser Electrical Systems - WWI Alarms

Did you know?

Alarms can warn of danger. These work as monitoring systems and often have sensors or switches that cause the glarm to sound or light up. Sometimes they are linked to phones or other means such as video monitors. Many can be programmed and set with timers.



The word alarm came from the Old French A 'arme meaning 'to the arms/weapons', telling

armed men to pick up their weapons and get ready for action, because an enemy may have suddenly appeared.

Key Vocabulary

Control: to make work

Input device: the part that puts

information in e.g. computer keyboard

Monitor: watch

Output device: the outcome (light, sound

or movement)

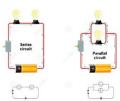
Program: set of instructions

System: rules to make something work

Evaluating

Designing

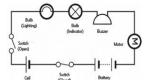
* Consider which type of circuit you need to use.



- * In a series circuit, there is only one path which the electricity follows.
- * In a parallel circuit, the components are positioned on

different branches of the wire. Both or just one component can work.

* You will need to draw a circuit diagram alongside your annotated sketches.



* As well as making a physical circuit you will learn how to use a Crumble Controller to write a program and

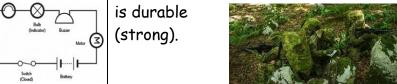
control an output.

* You need to make your alarm blend into the surrounding area and ensure that it

Making



- * How well does your electrical system work?
 - * Does it meet its purpose?
 - * What would a WWI soldier think about your product?
 - * What type of switch did you choose to use? Why? What are the pros and cons of this type of switch?
 - * What could you still improve about your product? How would you do things differently next time?



Character	Critical thinking	Creativity	Communication	Citizenship	Collaboration
What qualities does	How have inventions	Can you design an	Does your alarm	When do people	Pretend to be
it take to be an	shaped the way wars	intruder alarm for	communicate the	benefit from alarm	soldiers to test out
inventor?	are fought now?	your bedroom?	message of attack?	systems?	each other's alarms.