



# Linked learning theme: World War Two

Summer term, Year 6

## Design & Technology – Computer-aided product

### Prior knowledge

In computing lessons, children have learnt how to program. In design & technology, children have had lots of practise identifying user, purpose and design criteria. They have not yet applied computing to design & technology.

### Core knowledge

- A microbit can be programmed to respond to motion.
- Alarms are used to alert people to intruders. They must make a loud noise.
- Boxing is used to protect the microbit from damage. This must be able to attach to something e.g. wall of a house.

### Key skills

- Research alarm systems, how they work and why they are used (apply this to history with WW2 topic).
- Create a design criteria to design their own alarm system. Use an annotated diagram.
- Program the microbit to achieve the purpose set out in the design criteria.
- Use materials and tools safely.
- Test and evaluate the product. Rework and refine.

<b>Vocabulary</b>	Programming	Purpose
Design criteria	Alarms	User
Microbit	Annotated diagram	Refine

### Learning Outcome

- I can program a microbit to respond to motion.
- I can use tools safely and accurately.
- I can evaluate against the design criteria.
- I can rework and refine the product to meet the design criteria.