


Year 5: Systems  
How can we keep ourselves safe on the road?





**Core content:**


Design and make a road safety belt.  
Fulfil a design brief.  
Write a simple program for a micro:bit.


**Technical vocabulary:**


**Properties** – qualities or characteristics that something has. 


**Fastener** – a button, zip or other device used for temporarily joining together parts of items. 


**Algorithm** – a process or set of rules to be followed in operations, especially by a computer. 

**Fluorescent** – appearing very bright and can be seen in the dark. 

**Reflective** – capable of throwing back light, heat or sound from a surface. 

**Attachment point** – the point which one thing joins to another. 

**Debug** – to look for and remove faults in a computer program. 

**Programming** – writing and testing computer programs. 

**Connections**

Emily Brooke  
Inventor of the Laserlight  
bike light projector



# Year 4/5

## Summer 2

### Systems

### Block B

At the end of this block, pupils will ...	
Know:	Be able to:
Technology can be used to program and control a product	Combine elements of their design knowledge to fulfil a brief

In this block, pupils will draw on the knowledge they have learnt so far to design and make a road safety belt. Pupils will write a simple program for a micro:bit and evaluate their outcome against the design brief.