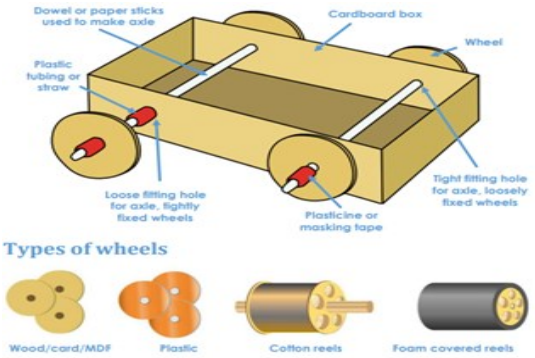
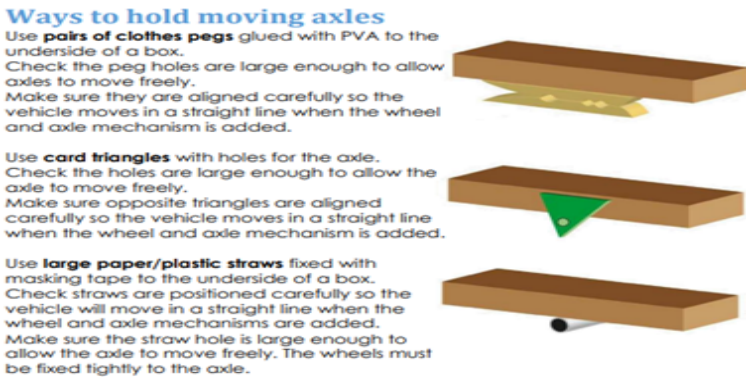
THE DESIGN CHALLENGE

Can you design and make a racer using recycled materials?

Axles and wheels



Ways of attaching axles



YouTube- Wheels and axles

The science behind wheels and axles

Bitesize- Rubbish and recycling

Further exploration of the issue with text and videos

Glossary

axle	A od that goes right through the very centre of a wheel to help it move and stay in place
wheel	A circular component that rotates on an axle
rotating	To circle around a centre point.
mechanism	The parts by which a machine operate s
recycled	Making rubbish into something new
reclaimed	To recover and reuse materials
sustainable	The idea that humans must interact with the environment in a way that ensures there will be enough resources left for future generations

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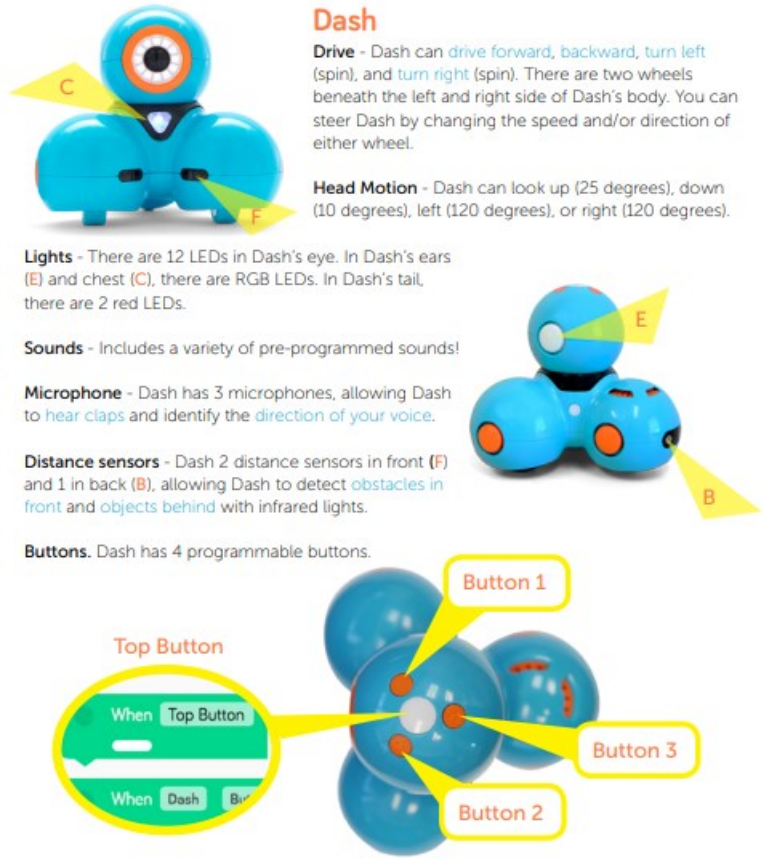
Computing

Can you program a robot to move through a maze?

Meet Dash



Glossary

function	*a "chunk" of code that you can use over and over again*
coding	*The process of writing a computer program*
Debugging	*The process of identifying and removing errors from computer hardware or software.*
execute	*The process by which a computer or virtual machine reads and acts on instructions*
sequence	*the name given to the specific order in which instructions are carried out in an algorithm*
loops	*A series of instructions that are continually repeated.*
algorithm	*A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer.*

YouTube- Dash controls

How to use the Wonder app to control Dash

BBC Bitesize

What is debugging?

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