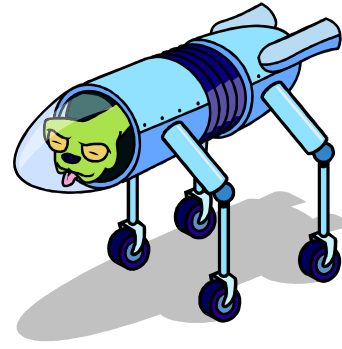


ROBOT BUGS



Students construct a simple electronic circuit and make their own working robot called a Jitter bug. In doing this activity students learn about Electricity, construction and Movement using off centre CAMs.

Location: Any Class Room.

Group size: 4-40 students.

Recommended Level: KS2

Cost: £3 per Student.

Consumables: Art Materials (tissue paper, Glue, Googly eyes etc...), AA Batteries, TEP bug Kit.

Tools and Equipment: Philips Screwdriver, Small Adjustable Spanner.

Staffing: Mr. Emanuel & Haywood y7 leaders

Time needed: 1Hour.

Extension Tasks: Extension tasks are available to suit the group. For example Some Students like to continue customising their Robot Bug after the Teacher led activity (see case study Attached) We can also take a Look at basic Electronic components and circuits and how Electricity works.

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Curriculum Areas: Engineering
Electronics
Compliant Materials
Art
Science

Software used: N/A

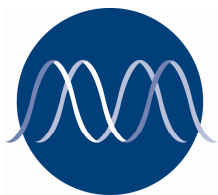
Subject Specific words

Tools and Equipment:	Spanner Screw driver Nut Bolt Screw Rubber Tube Pipe Clip Battery and Battery Holder Motor Wire Off Center Cam Sticky Pad	Other:	Electricity Circle Plastic Metal Clear Coloured Red Black Positive Negative Artwork
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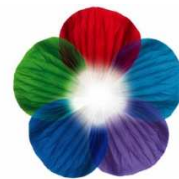
Health and Safety: Sharp objects
Small objects
Moving Parts

Functional Skills: Hand Eye Co-ordination
Using Own Imagination
Using appropriate tools and equipment
Identifying different Components
Safe use of tools and equipment
Working on a Focused Practical task
Working to a deadline

Every Child Matters: Enjoy and Achieve



Engineering



Specialist Schools Trust
EXCELLENCE AND DIVERSITY

