

STEM - Primary

TECHNOLOGY IN PRIMARY SCHOOL

Importance of starting early

Primary school students have a natural curiosity, creativity and desire to explore the world around them. Technology allows students to plan, experiment, construct and observe while learning.

Many Primary teachers have minimal training in Technology which discourages them from teaching this stimulating topic. For this reason Scorpio Technology has developed the **Blue Brothers series** with step-by-step instructions, minimal equipment require and importantly no prior knowledge is required.

- BLUEY
- BLUEBIRD
- BREEZY
- BLUE SKY



Skill development

	BLUEY	BLUEBIRD	BREEZY	BLUE SKY
Design & Planning	✓	✓	✓	✓
Construction	✓	✓	✓	✓
Tools: hammer, scissors	✓	✓	✓	✓
Simple circuits		✓	✓	✓
Electricity		✓	✓	✓
Belt drive		✓		✓
Propeller driven			✓	
Solar powered				✓
Experimentation	✓	✓	✓	✓
Appearance enhancement	✓	✓	✓	

What is supplied?

Each kit is supplied with the electric motors, switches, wheels, axle shafts, adhesive materials and items specific to each kit.

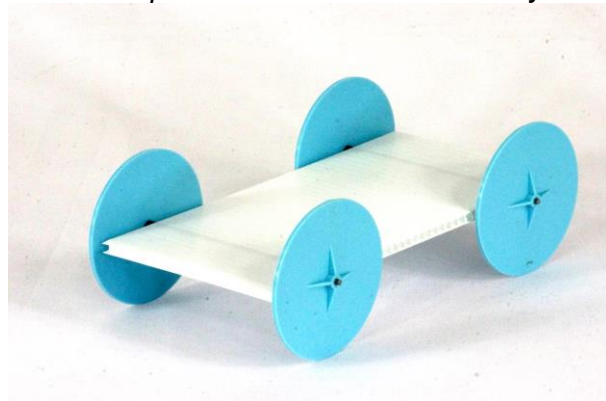
You will need to provide basic tools such as hammer, scissors and a Wire Stripper (not

compulsory). Batteries are not supplied. Check Scorpio's catalogue for all of these.

A Teaching unit is provided for the Teacher's use. One is provided per order. You are provided with step-by-step instructions and additional teaching resources such as items to investigate and design ideas.

BLUEY

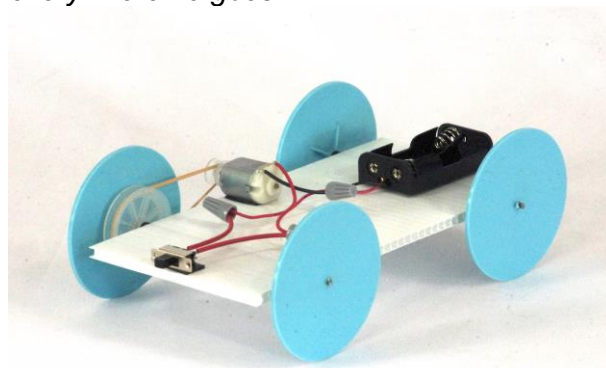
The youngest member of the Blue family who's not quite sure what it wants to be yet...



This is a four-wheeled vehicle at its simplest. There is no motor to drive the vehicle, however, a number of cars can be raced against each other using a ramp. These vehicles can also be used to experiment simple concepts of physics!

BLUEBIRD

The hoon in the Blue family – racing everywhere he goes!



Motive power is provided to the rear axle by an electric motor-driven belt (a rubber band).

This vehicle illustrates a basic electric circuit (switch, electricity supplied from a battery and



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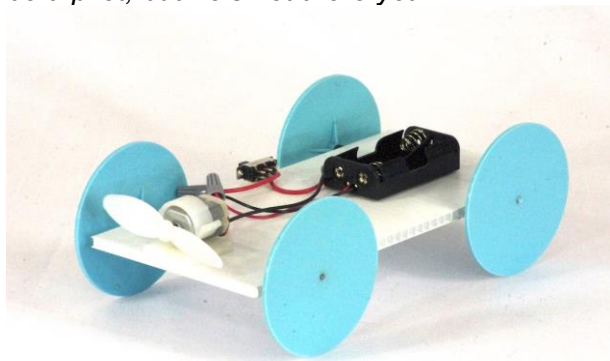
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motor). Students may choose to add a wing or windsail to the basic design.

A number of these cars can be raced against each other.

BREEZY

Every family has an airhead – Breezy wants to be a pilot, but he's not there yet...!

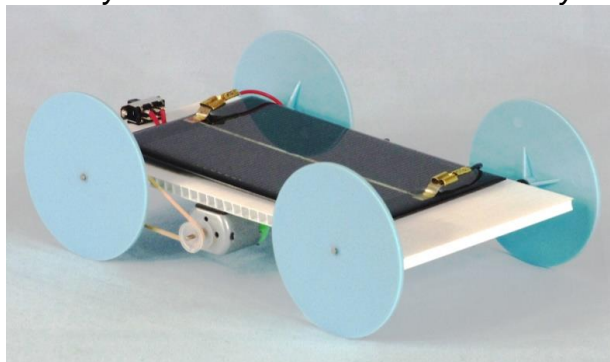


This basic four-wheeled vehicle uses a battery operated motor-driven propeller to make it move.

This vehicle can also be used to experiment simple concepts of electric circuits and investigate Newton's 3rd Law of Motion in physics!

BLUE SKY

This boy's the environmentalist in the family!



This is a four-wheeled solar powered vehicle at its simplest. Motive power is provided to the rear axle by a belt drive from an electric motor powered by the solar panel.

This vehicle illustrates a basic electric circuit (switch, electricity generated from a solar panel and motor).

These cars can be used to perform basic experiments relating to solar energy.

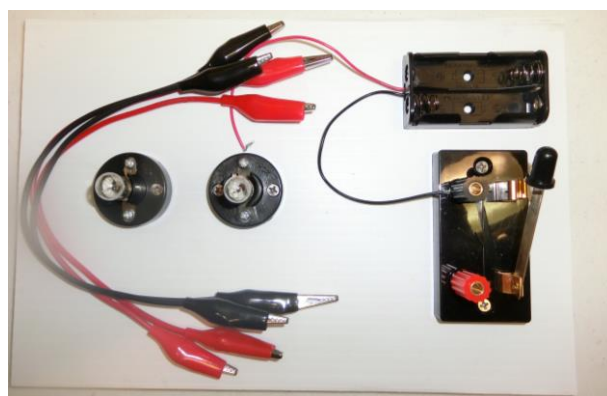
Teaching unit has construction information, Introduction To Solar Energy section, items to investigate and Solar panel experiments.

BLUE BROTHERS	
BLUEY (Code: BLUEY)	
1-19 \$4.75	20+ \$4.60
BLUEBIRD (Code: BLUEBIRD)	
1-19 \$7.75	20+ \$7.50
BREEZY (Code: BREEZY)	
1-19 \$9.10	20+ \$8.85
BLUE SKY (Code: BLUESKY)	
1-19 \$18.50	20+ \$17.95

SIMPLE CIRCUITS KITS

This kit introduces primary students to basic electricity concepts such as

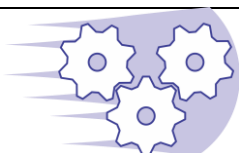
- component names,
- series and parallel circuits,
- open and closed circuits,
- electric circuit symbols and diagrams.



Kit includes switch, bulb holder, bulb, battery holder, alligator clips, tape and screws. This kit is designed to be used by groups of 2-3.

Teaching unit includes simple experiments that promote critical thinking skills and deductive reasoning.

SIMPLE CIRCUITS KITS (Code: SIMPCIRC)	
1-19 \$TBA 2019	20+ \$TBA 2019



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