

CONTENTS

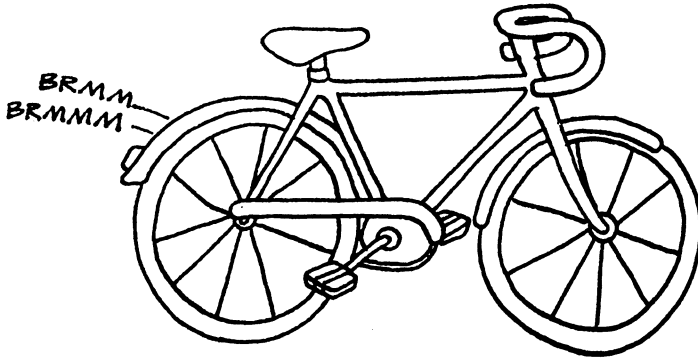
	PAGE
Mobile	1
Coin Sorter	1
Catapult	2
Strong Hair?	2
A Bit Shaky	3
Time to Dye	3
Bad Luck, Wolf!	4
Olympic Games	4
Fruit Juice	5
What's Cooking?	5
Multiplication	6
Hot Water	6
Rare Chair	7
Toothpick Bridge	7
Invisible Ink	8
High Ball	8
Plug-Out	9
Propeller	9
Recycled Paper	10
Waterwheel	10
Furniture Design	11
Classroom Design	11
Expanding Metal	12
Square Bubbles	12
Dinner Party	13
Enviro-Chair	13
Lost at Sea	14
Litter Picker	14
Fencing	15
Seed Sorter	15
Garden Tool	16
No Drip Stick	16
Boat in a Bottle	17

CONTENTS

	PAGE
A Stone's Throw	17
Lemon Squeezer	18
Hedgehog	18
Small Business	19
Dream House	19
Timer	20
Stamp Design	20
Container Design	21
From a Height	21
Newspaper Rope	22
Bedroom Re-design	22
Egg Catcher	23
Egg Support	23
Aeroplane	24
Rubber Band Energy	24
Pebble Polisher	25
What Energy?	25
Messenger	26
Travel	26
Making Music	27
Dried Fruit	27
Mouse House	28
Submarine	28
New Clothes	29
Plane, Car or Boat	29
Skipping Game	30
Paper Dart	30
Space Station	31
My Alone Place	31
Bubbles	32
Home-Made Magic	32
Motorbike?	33
Plants Alive!	33

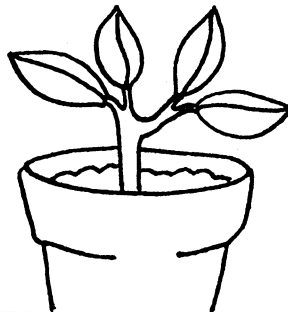
MOTORBIKE?

Design, build, trial and perfect a device for making a bicycle, when it is being ridden, sound as though it has an engine attached.



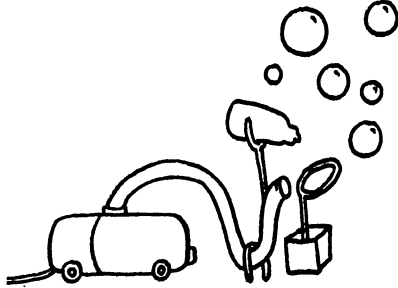
PLANTS ALIVE!

Construct a device which will keep a plant which needs normal access to water, alive for four weeks indoors without further watering. Trial it to perfection.



BUBBLES

Design and build a bubble-blowing machine which can put into the air, a continuous stream of single bubbles for a period of five minutes without anyone having to assist it during that time.



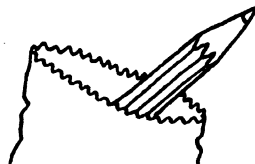
HOME-MADE MAGIC

Magicians invent their illusions. You can too. Invent an illusion in which:

*a pencil disappears from a paper bag and reappears elsewhere.

OR *you pull a string of handkerchiefs from an empty tin.

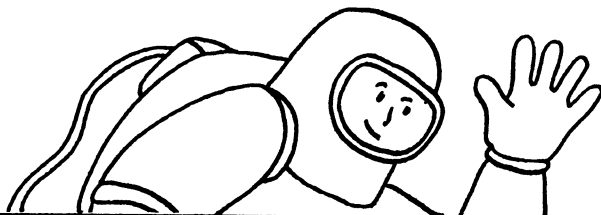
OR *A torn piece of paper is joined together again without any tear marks.



SPACE STATION

Design the living section of a space station, for a family of five. Less than 100 square metres, it must allow for a wide range of activities and interests to be undertaken.

The area may be any shape, and may be weightless or otherwise.



MY ALONE PLACE

It's great to have friends and to be with others at times, but most of us also need some alone time. Imagine you had total freedom to build your own 'alone place' wherever and however you wanted. Design it including notes about its features and why they are included.

