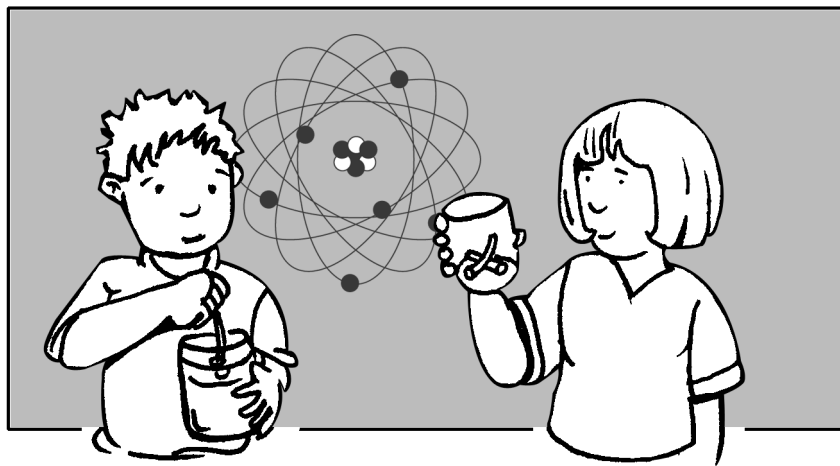


Science

VELS Student Workbook

Year 5

Level 4



STUDENT WORKBOOK

Sandra Bishop



Introduction

The work sheets in this book are designed to be used in conjunction with *Science: Teaching and Assessment Resource – Year 5*, but may also be used separately. The work sheets correspond with the activities detailed in the week-by-week lesson plans in *Science: Teaching and Assessment Resource – Year 5*. These lesson plans also list any resources required (most of which can be easily found around the classroom or at home) and list objectives, skills and assessment suggestions. Some lesson plans also include extension activities.

This student workbook encourages active student participation, and helps develop a wide range of skills such as discussing, analysing, hypothesising and cooperating. It also serves as a record of each student's observations and provides an outline of how each student's scientific knowledge has developed.

Contents

Earth & Space

Scientists.....	7
Guest Speaker	9
Layers of the Earth	10
Above Earth	15
The Atmosphere	16
Chemical Symbols.....	17
Chemicals in the Atmosphere.....	18
Atmosphere Research Project	19
Atmosphere Facts	20
The Earth's Atmosphere	21
Humans and the Atmosphere.....	23
Above & Below the Earth.....	24
Natural Disasters Research Project	26
The Solar System.....	29
Planet Research.....	31

Forces and Motion

Energy Types	32
Energy Transfer & Transformation.....	34
Electrical Circuits.....	35
Magnets & Electricity.....	36
Toys & Gadgets.....	38
Tinkering with Motors	39
Force	40
Movement.....	42
Forces Acting in a Straight Line	43
Floating & Sinking.....	45
Forces	47
Cartesian Diver.....	48

Matter

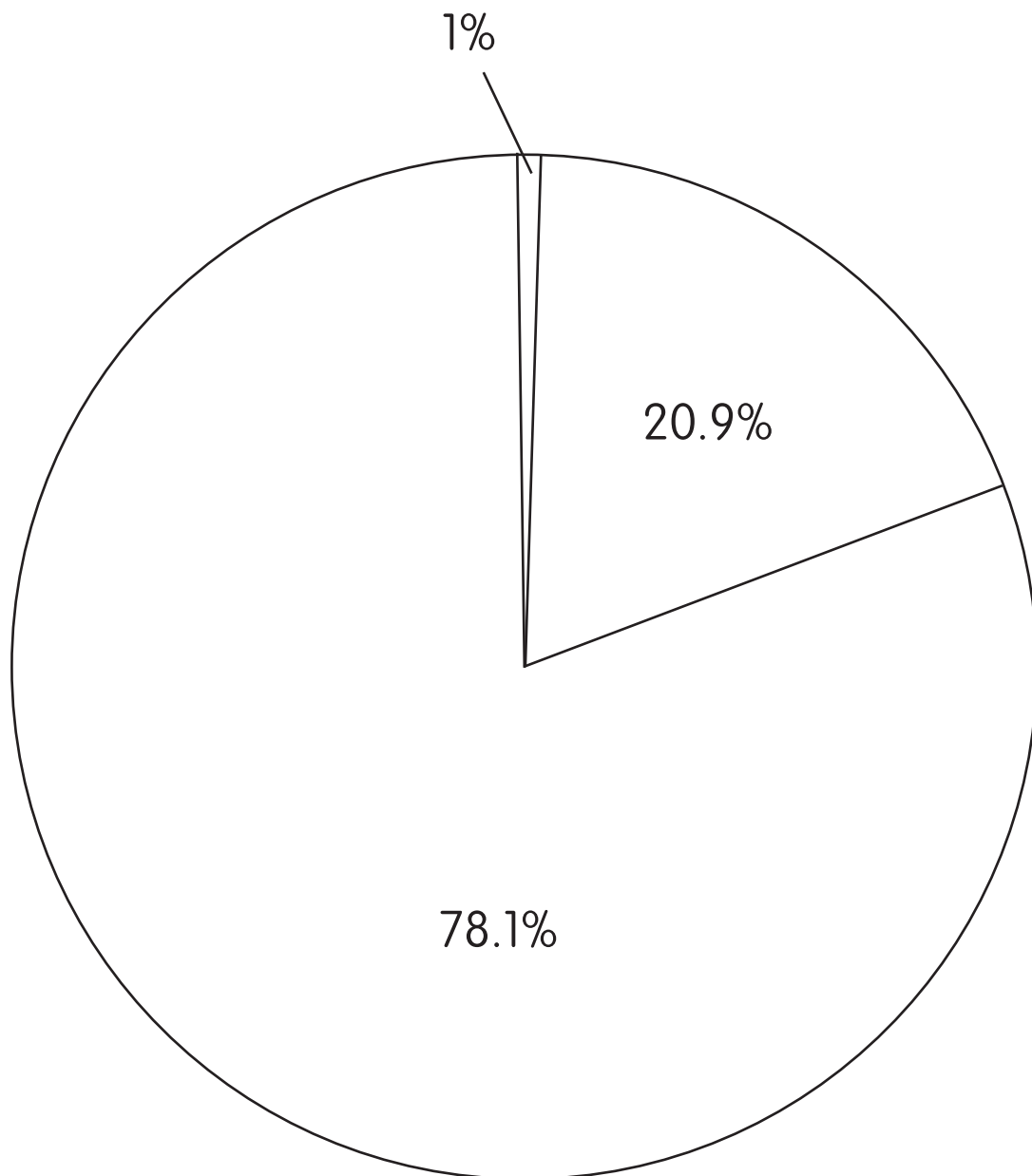
Substances	49
Substances – Glass	50
Substances – Wood	51
Substances – Metal	52
Substances – Plastic	53
Substances – Rubber	54
Substances – Fabric	55
Substances – Elastic	56
Substances – China	57
Houses	58
Kit-Home Data	60
Substances as Fuels	61
Fuel Research Task	62
Changes to Substances	65
Mystery Lumps	66
Changing Apples	67
Invisible Ink	68
Fresh Milk & Sour Milk	69
Glue from a Moo	70
Heating & Cooling	71

Living Things

Food Chains	73
Carnivore Food Chain	76
Herbivore Food Chain	77
Omnivore Food Chain	78
Habitats	79
Food Chain Relationships	81
Scavengers, Parasites & Collaboration	82
Food Chain Roles & Relationships	83
Body Parts	84
Human Internal Organs	85
Animal Body Parts & Organs	86
Comparisons of Bodies	87
Body Systems	88
Body Organs & Systems	89
Dissect a Plant	90
Plants	91
Plants & Animals	92
Plant Systems	93
Animal Body Systems	94

Chemicals in the Atmosphere

Label the pie chart below with the gases which match each amount.



Energy Types

Draw or paste in pictures of devices that use the energy types listed.

Heat energy	Light energy
Electrical energy	Chemical potential energy