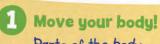


Me	et	our	
sci	ent	tists	

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Introduction to the course characters



· Parts of the face

Parts of the body

· Parts of the body

Senses

Page 6

· Sections of the body

· Bones, joints and muscles

Sport

Stay strong, live long! Healthy habits

Animal planet

· Five a day

Food groups

· Healthy habits

Page 18

· Vertebrates and invertebrates

· Wild and domestic animals

Page 30

· How animals move

Habitats

Animal groups

Flower power! Plants

Animals

· Parts of a plant · Trees, bushes and · Wild and cultivated plants

Page 42

grasses

· What plants make

I'm alive! Living and

non-living things Page 54 The circle of life: plants, animals and people are living things

· What living things need · Non-living things

Feelings lab

Identity, feelings and working together

Page 66

· Good and bad choices

· Behaviour at school and at home

· Helping at home

Page 78



Mindful time

Documentary

Build a skeleton.Make a Body mini book.Make a potion.	• Belly breathing	• Incredible bodies
 Keep a food diary. Find out why we need to brush our teeth. 	Contract and relax your body parts	• In the supermarket
Make an animal habitat.Find out what birds eat.	• Sounds of nature	• Animal trip
• Find out what plants need to live.	• Breathe like a tree	• All about plants
 Make a crazy garden. Make an animal poster. The time of my life! 	• Sensations	Living and non-living things
 Make a postbox for positive messages. Do a survey to find out what chores your classmates do. 	Mirrors	• Good choices

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Hereweg	oagain!
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Page 4



Do the locomotion!

Page 6

- · Parts of the body
- Muscles

- Bones

· Joints

An amazing machine

Page 18

- · Senses
- · Digestive system
- · Respiratory system
- · The stages of life

All about

Page 30

- Mammals
- · Birds
- Fish

- · Reptiles and amphibians
- Molluscs

Allaboutplants

Page 42

- · Classifying plants
- · Deciduous and evergreen trees
- · Flowering and nonflowering plants

Building blocks

Page 54

- · Natural and non-natural materials
- · Properties of materials
- · Uses of materials
- · Reversible and irreversible changes

Helping me and you

Page 66

- · Tools
- · Simple machines
- · Complex machines
- · Machines and energy
- Inventions

Page 78

Projects and experiments	Mindful time	Documentar
 Make an x-ray Make a muscle Make a hand model 	• Remember the beginning	• Train your muscles
 Make a stomach Find out how much air you can breathe Make a Funny Family book 	• Listen to the gong	• Being strong
Make a hanging mobileLet's make animals!	• Be a butterfly	• Amazing animals!
 Make a plant mural Make a deciduous tree Investigate and make a class fern 	• We are sunflowers	• Forever green
 Make a materials display Build a house Learn about reversible and irreversible changes 	• Different forms	• What is it made of?
Make a tool mini bookLet's invent!Let's have a race!	• Robot massage	• Round and round

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- Why do babies have more bones than adults? Page 6
- What happens to food inside your body?

Page 18

Which vertebrate has two lives?

Page 30

How do plants get their food?

Page 42

Gan you help save the planet?

Page 54

6 What is a simple machine?

Page 66

- · Nervous system
- · Locomotor system
- · Sense of hearing
- Food groups and nutrients
- · Digestive system
- Circulatory system
- Mammals
- · Birds
- Reptiles
- Parts of a plant
- Plant classification by stem
- · Matter: changes of state
- Types of energy: light, thermal, sound, kinetic and electrical
- Simple machines: inclined plane, screw, pulley, wheel and axle, lever and wedge

- · Sense of sight
- · Senses of smell and taste
- · Sense of touch
- Respiratory system
- · Excretory system
- · Reproductive system
- Amphibians
- Fish
- Invertebrates
- Plant reproduction: flowering plants and non-flowering plants
- · Plant nutrition
- Materials: conductors and insulators
- Mixtures
- Inventions: steam engine and telegraph

Questions and Study aids

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Projects and experiments

Documentaries

 Make a mural about a season and the five senses Build a pinhole camera 	• Helping the senses
 Write a rap about nutrition Build a model of the respiratory system 	• Say no to fast food
Give a presentation about animals Find out why animals use camouflage	• The animal kingdom
 Make a field journal about plants Germinate a seed 	• The plant kingdom
 Create signs to remind people to save water and energy Observe the effect of thermal energy on liquids 	• Energy and matter
 Design a complex machine Communicate using Morse code 	Incredible inventions





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How gre we made

Page 6

- · Respiratory system
- · Circulatory system
- Reproductive systems
- · Development of a baby

How are you feeling?

Page 20

- · Common illnesses
- Medicine
- · First aid

- · Healthy habits
- · Unhealthy habits

3 Is a sponge an animal?

Page 30

- · Vertebrate nutrition
- · Vertebrate respiration
- · Vertebrate reproduction
- Classification of invertebrates

Why are plants so important?

Page 44

- Review of the parts of a flower
- · Plant reproduction
- · Plant nutrition
- Photosynthesis

Which forces are invisible?

Page 54

- · Mass and volume
- · Properties of materials
- Contact and non-contact forces
- · Density and buoyancy

6 How have machines changed the world?

Page 68

- Inclined plane
- Pulley
- Levers

- Archimedes
- Isaac Newton
- Inventions

Questions and Study aids

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Documentaries

 Create a 3D body systems mural Check vital signs 	• Respiration and circulation
 Create a healthy habits awareness campaign Learn about the negative effects of alcohol 	• Healthy and unhealthy habits
 Make wildlife park signs about vertebrates and invertebrates Observe the effect of carbon dioxide on litmus paper 	Marine invertebrates
 Create a quiz about plant reproduction and nutrition Observe plant respiration 	• Plant reproduction
Make a materials classroom display Predict if objects will sink or float	• Forces
 Create a slide presentation on simple and complex machines Make a lever 	• Inventions that changed the world





· Dichotomous keys

Desert ecosystems

· Aquatic ecosystems

· Urban ecosystems

Protecting species

 Non-renewable energy sources

organisms

· Weird and wonderful

Welcome

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1 Living things

Page 6

2 Ecosystems

Page 18

3 The biosphere

Page 30

Energy

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- 5 Sound, light and heat Page 54
- 6 Electricity
 Page 66

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Animal and plant cells

 Cells, tissues, organs, organ systems

- · The five kingdoms
- · Elements of an ecosystem
- · Grassland ecosystems
- · Forest ecosystems
- · Food chains
- · Food webs
- · Threats to biodiversity
- · Different forms of energy
- Energy transformations
- Renewable energy sources
- · Properties of sound
- Light sources and properties of light
- · Reflection
- · Refraction
- Properties of heat
- · Electrical charges
- Static electricity
- · Current electricity
- · Edison and the lightbulb
- Famous inventors and inventions

Questions and Study aids

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· Make a Book of life · Living or non-living? · Discover why plants have a cell wall · Do a presentation on an ecosystem · Amazing adaptations · Investigate how animals survive the cold of the Arctic tundra · Create and promote your own nature reserve · Cooperation is key · Find out the best way to clean up an oil spill · Create a plan to save energy at home · Shine on sunny sun · Discover how important light is for plants · Design a campaign warning about the risks of too · Hear energy, see energy, much energy feel energy · Investigate how sound travels and why telephones used to have cords · Design and build a light-up board game · Electricity everywhere · Find out what happens when you change components in an electrical circuit





Welcome

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1 Interaction

Page 6

· Sense organs

Contents

- Musculoskeletal system
- Nervous system
- · Reflexes

2 Nutrition

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- · Stages of nutrition
- · Food groups and nutrients
- · Digestive system
- · Circulatory system
- · Respiratory and excretory systems
- · First aid techniques

3 Reproduction

Page 32

- · Human life cycle
- · Male reproductive system
- · Female reproductive system
- · Stages of reproduction

4 Mixtures

Page 44

- · Mixtures and states of matter
- · Homogeneous and
- · Magnetic separation
- Filtration
- heterogeneous mixtures
- Evaporation and distillation

- **5** Chemical reactions Page 56
- Characteristics of chemical reactions
- Oxidation
- Combustion
- Fermentation

6 Magnetism

Page 66

- Magnets and magnetism
- · Magnetic fields
- Attraction and repulsion
- The Earth's magnetic field
- Electromagnets

Questions and Study aids

Page 78

Projects and experiments	Documentaries
 Create a comic book about the nervous system Investigate how the brain can affect our reflexes 	• Sensing our world
 Record a podcast about advances in science Find out how bacteria are spread 	Working together: look what your body can do
 Create a My Life scrapbook Discover how to extract genetic material from cells 	• Changes over time
Experiment with mixtures and create a poster Investigate how chromatography works	Messy and not so messy mixtures
 Write a report about chemical reactions and create a class magazine Discover how important oxygen is for combustion 	• Different reactions
 Design and demonstrate a magnetism experiment for a science fair Investigate the relationship between electricity and magnetism 	• It's all about the field

