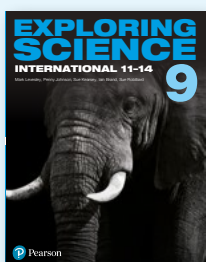
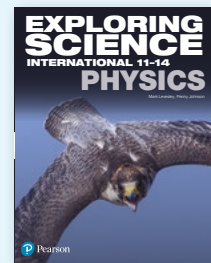
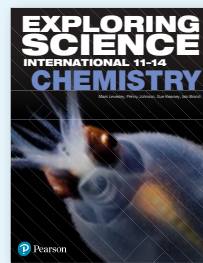
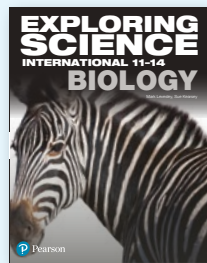


EXPLORING SCIENCE

INTERNATIONAL 11-14

What's included in the Student Books?





Biology

7A Cells, tissues, organs and systems
7Aa Doctors past and present
7Aa Life processes
7Ab Organs
7Ab Medical doctors **S**
7Ac Tissues
7Ac Microscopes **WS**
7Ad Cells
7Ae Organ systems
7Ae Transplants

7B Sexual reproduction in animals
7Ba Escaped zoo animals
7Ba The scientific method **WS**
7Ba Animal sexual reproduction
7Bb Reproductive organs
7Bc Becoming pregnant
7Bd Gestation and birth
7Bd Saving endangered species **S**
7Be Growing up
7Be The work of zoos

7C Muscles and bones
7Ca Fitness
7Ca Muscles and breathing
7Cb Muscles and blood
7Cb Scientific questions (WS)
7Cc The skeleton
7Cd Muscles and moving
7Cd Artificial limbs **S**
7Ce Drugs
7Ce Drugs and sport

7D Ecosystems
7Da Exploring the world
7Da Variation
7Da Charts and graphs **WS**
7Db Adaptations
7Dc Effects of the environment
7Dd Effects on the environment
7Dd Building greener cities **S**
7De Transfers in food chains
7De Nomads

Chemistry

7E Mixtures and separation
7Ea Mixtures and separation
7Ea The work of a forensic scientist **S**
7Ea Mixtures
7Eb Solutions
7Ec Safety when heating **WS**
7Ec Evaporation
7Ed Chromatography
7Ee Distillation
7Ee Safe drinking water

7F Acids and alkalis
7Fa Chemistry in the home
7Fa Hazards
7Fa Controlling risk **WS**
7Fb Indicators
7Fc Acidity and alkalinity
7Fd Neutralisation
7Fd The chemical industry **S**
7Fe Neutralisation in daily life
7Fe Danger at home

7G The particle model
7Ga Sorting rubbish
7Ga Solids, liquids and gases
7Gb Hypotheses and theories **WS**
7Gb Particles
7Gc Brownian motion
7Gd Diffusion
7Ge Air pressure
7Ge Forecasting the weather **S**
7Ge Waste

7H Atoms, elements and molecules
7Ha Our material world
7Ha Sorting resource data **WS**
7Ha The air we breathe
7Hb Earth's elements
7Hc Metals and non-metals
7Hc Obtaining metals **S**
7Hd Making compounds
7He Chemical reactions
7He Problems with elements

Physics

7I Energy
7Ia Energy and changes
7Ia Energy from food
7Ia Fair comparisons and ratios **WS**
7Ib Energy transfers and stores
7Ic Fuels
7Ic Transporting goods **S**
7Id Other energy resources
7Ie Using resources
7Ie Making changes

7J Current electricity
7Ja Discovering electricity
7Ja Switches and current
7Jb Models in science **WS**
7Jb Models for circuits
7Jc Series and parallel circuits
7Jd Changing the current
7Jd Building robots **S**
7Je Using electricity
7Je A world without electricity

7K Forces
7Ka Forces
7Ka Different forces
7Kb Springs
7Kc Friction
7Kd Pressure
7Kd SI units (WS)
7Ke Balanced and unbalanced
7Ke Designing structures
7Ke Safety standards

7L Sound
7La Animal sounds
7La Making sounds
7Lb Moving sounds
7Lb Line graphs and scatter graphs **WS**
7Lc Detecting sounds
7Ld Using sound
7Ld Working with sound **S**
7Le Comparing waves
7Le Animals and noise



Biology

8A Food and nutrition
8Aa Food and advertising
8Aa Nutrients
8Ab Uses of nutrients
8Ac Balanced diets
8Ac Making new foods **S**
8Ad Digestion
8Ae Surface area **WS**
8Ae Absorption
8Ae Packaging and the law

8B Plants and their reproduction
8Ba Useful plants
8Ba Classification and biodiversity
8Ba Accuracy and estimates **WS**
8Bb Types of reproduction
8Bc Pollination
8Bc Air quality **S**
8Bd Fertilisation and dispersal
8Be Germination and growth
8Be Animals using plants

8C Breathing and respiration
8Ca Water sports and breathing
8Ca Aerobic respiration
8Cb Gas exchange system
8Cb Means and ranges **WS**
8Cc Getting oxygen
8Cc Epidemiology **S**
8Cd Comparing gas exchange
8Ce Anaerobic respiration
8Ce Fitness training

8D Unicellular organisms
8Da The Black Death
8Da Unicellular or multicellular
8Da Tackling diseases **S**
8Db Microscopic fungi
8Dc Bacteria
8Dc Pie charts **WS**
8Dd Protoctists
8De Decomposers and carbon
8De Black Death hypotheses

Chemistry

8E Combustion
8Ea Engines
8Ea Burning fuels
8Eb Oxidation
8Ec Fire safety
8Ec Fair testing **WS**
8Ed Air pollution
8Ee Global warming
8Ee Carbon footprint **S**
8Ee Reducing pollution

8F The periodic table
8Fa Fireworks
8Fa Dalton's atomic model
8Fb Chemical properties
8Fc Mendeleev's table
8Fc Anomalous results **WS**
8Fd Physical trends
8Fd Inspiring teachers **S**
8Fe Chemical trends
8Fe Firework ban

8G Metals and their uses
8Ga Building up
8Ga Metal properties
8Gb Corrosion
8Gc Metals and water
8Gd Quality evidence **WS**
8Gd Metals and acids
8Ge Pure metals and alloys
8Ge New alloys **S**
8Ge Metals in art

8H Rocks
8Ha Disaster!
8Ha Rocks and their uses
8Hb Igneous and metamorphic
8Hb Predicting eruptions **S**
8Hc Weathering and erosion
8Hd Sedimentary rocks
8Hd Theories in geology **WS**
8He Materials in the Earth
8He Living in danger

Physics

8I Fluids
8Ia Exploring extremes
8Ia The particle model
8Ia Calculations with density **WS**
8Ib Changing state
8Ic Pressure in fluids
8Id Floating and sinking
8Ie Drag
8Ie Operating aeroplanes **S**
8Ie Humans at the extremes

8J Light
8Ja Seeing things
8Ja Light on the move
8Jb Drawings and conventions **WS**
8Jb Reflection
8Jc Refraction
8Jd Cameras and eyes
8Jd Looking after our eyes **S**
8Je Colour
8Je Invisibility cloaks

8K Energy transfers
8Ka Living in extremes
8Ka Temperature changes
8Kb Transferring energy
8Kc Controlling transfers
8Kc Accuracy and precision **WS**
8Kd Power and efficiency
8Kd Managing disasters
8Ke Paying for energy
8Ke Keeping warm

8L Earth and space
8La Changing ideas
8La Gathering the evidence
8La Working in space **S**
8Lb Seasons
8Lc Magnetic Earth
8Ld Gravity in space
8Ld Making comparisons **WS**
8Le Beyond the Solar System
8Le Studying space



Biology

9A Genetics and evolution
9Aa Monsters and myth
9Aa Environmental variation
9Ab Inherited variation
9Ab Probability **WS**
9Ac DNA
9Ac STEM spread Genetic counsellor
9Ad Genes and extinction
9Ae Natural selection
9Ae Recreating animals

9B Plant growth
9Ba On a farm
9Ba Reactions in plants
9Bb Plant adaptations
9Bc Plant products
9Bd Growing crops
9Bd STEM spread Ecologist
9Be Farming problems
9Be Bias and validity **WS**
9Be Organic farming

9C Biology transition to further study

9Ca Threat from disease
9Ca Diseases
9Ca STEM spread Vet
9Cb Control systems
9Cc Testing medicines
9Cc Median and quartiles **WS**
9Cd Ecology 62
9Ce In and out 64
9Ce Combatting pandemics 66

9D1 Animal smuggling
9D2 Enzyme investigation
9D3 Teeth

Chemistry

9E Making materials
9Ea Materials of the future
9Ea About ceramics
9Eb Polymers
9Eb Peer review **WS**
9Ec Composite materials
9Ec STEM spread Car designer
9Ed Problems with materials
9Ee Recycling materials
9Ee Material failures

9F Reactivity
9Fa Demolition
9Fa Types of explosion
9Fb Reactivity
9Fc Energy and reactions
9Fc Percentage loss or gain **WS**
9Fd Displacement
9Fe Extracting metals
9Fe STEM spread Materials manager
9Fe Alfred Nobel

9G Chemistry transition to further study

9Ga Art and chemistry
9Ga Ions
9Ga STEM spread Climatologist
9Gb Energy transfers
9Gc Rates of reaction
9Gd Chemical equations
9Gd Standard form **WS**
9Ge Equilibria
9Ge Frescos

9H Chemistry revision and projects
9H1 Project 1: Carbon capture
9H2 Project 2: Electrolysis investigation
9H3 Project 3: Nanoparticles

Physics

9I Forces and motion
9Ia Moving things
9Ia Forces and movement
9Ia Energy for movement
9Ib STEM spread Ship operator
9Ic Speed
9Ic Equations and graphs **WS**
9Id Turning forces
9Ie More machines
9Ie Supplying the energy

9J Force fields and electromagnets
9Ja Mission to Mars
9Ja Force fields
9Jb Static electricity
9Jc Current electricity
9Jc STEM spread Electrical engineer
9Jd Resistance
9Jd Rounding numbers **WS**
9Je Electromagnets
9Je Humans in space

9K Physics transition to further study

9Ka Physicists
9Ka Differences
9Kb Fields
9Kc Cause and effect
9Kd Links between variables
9Kd Information from graphs **WS**
9Ke Models
9Ke STEM spread Games developer
9Ke Physics research

9L Physics revision and projects
9L1 Project 1: Ears and eyes
9L2 Project 2: Going faster
9L3 Project 3: Speed limits