

CURRICULUM LINKS

Each of our shows focuses intently on engaging your students with Science as a Human Endeavour. Our team of qualified Street Science presenters understand how important it is for students to seek to improve their understanding and explanations of the natural world. Students will be inspired through learning about how others before them constructed explanations based on evidence while celebrating national and international discoveries. Each of our presenters will use customized language and show content to best cater to the year-levels of your audience, while supporting alignment to the national curriculum. The following National Curriculum elements will be addressed with each group:

PREP

8.4	9.0	
Nature and development of science: ACSHE013	Use and influence of science: AC9SFH01	
Science involves observing, asking questions about, and describing changes in, objects and events	Explore the ways people make and use observations and questions to learn about the natural world	

YEAR 1

8.4	9.0
Physical sciences: ACSSU020	Physical sciences: AC9S1U03
Light and sound are produced by a range of sources and can be sensed	Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape
Nature and development of science: ACSHE021	Use and influence of science: AC9S1H01
Science involves observing, asking questions about, and describing changes in, objects and events	Describe how people use science in their daily lives, including using patterns to make scientific predictions
Use and influence of science: ACSHE022	
People use science in their daily lives, including when caring for their environment and living things	







YEAR 2

8.4	9.0
Physical sciences: ACSSU033	Earth and space sciences: AC9S2U01
A push or a pull affects how an object moves or changes shape	Recognise Earth is a planet in the solar system and identify patterns in the changing position of the sun, moon, planets and stars in the sky
Nature and development of science: ACSHE034	Physical sciences: AC9S2U02
Science involves observing, asking questions about, and describing changes in, objects and events	Explore different actions to make sounds and how to make a variety of sounds, and recognise that sound energy causes objects to vibrate
Use and influence of science: ACSHE035	Use and influence of science: AC9S2H01
People use science in their daily lives, including when caring for their environment and living things	Describe how people use science in their daily lives, including using patterns to make scientific predictions

YEAR 3

8.4	9.0
Nature and development of science: ACSHE050	Nature and development of science: AC9S3H01
Science involves making predictions and describing patterns and relationships	Examine how people use data to develop scientific explanations
Use and influence of science: ACSHE051	Use and influence of science: AC9S3H02
Science knowledge helps people to understand the effect of their actions	Consider how people use scientific explanations to meet a need or solve a problem







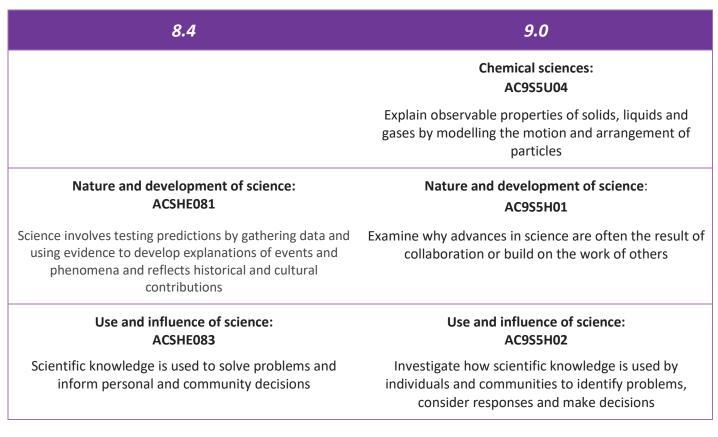
YEAR 4

8.4	9.0
Physical sciences: ACSSU076	Physical sciences: AC9S4U03:
Forces can be exerted by one object on another through direct contact or from a distance	Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects
Nature and development of science: ACSHE061	Nature and development of science: AC9S4H01
Science involves making predictions and describing patterns and relationships	Examine how people use data to develop scientific explanations
Use and influence of science: ACSHE062	Use and influence of science: AC9S4H02
Science knowledge being people to understand the	Consider how people use scientific explanations to

Science knowledge helps people to understand the effect of their actions

Consider how people use scientific explanations to meet a need or solve a problem

YEAR 5









YEAR 6

8.4	9.0
	Earth and space sciences: AC9S6U02
	Describe the movement of Earth and other planets relative to the sun and model how Earth's tilt, rotation on its axis and revolution around the sun relate to cyclic observable phenomena, including variable day and night length
Nature and development of science: ACSHE098	Nature and development of science: AC9S6H01
Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena and reflects historical and cultural contributions	Examine why advances in science are often the result of collaboration or build on the work of others
Use and influence of science: ACSHE100	Use and influence of science: AC9S6H02
Scientific knowledge is used to solve problems and inform personal and community decisions	Investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions

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YEAR 7

8.4

Physical sciences: ACSSU117

Change to an object's motion is caused by unbalanced forces, including Earth's gravitational attraction, acting on the object

9.0

Physical sciences: AC9S7U04

Investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it

Chemical sciences: AC9S7U05

Use particle theory to describe the arrangement of particles in a substance, including the motion of and attraction between particles, and relate this to the properties of the substance

Nature and development of science: ACSHE119

Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available

ACSHE223

Science knowledge can develop through collaboration across the disciplines of science and the contributions of people from a range of cultures

Use and influence of science: ACSHE120

Solutions to contemporary issues that are found using science and technology, may impact on other areas of society and may involve ethical considerations

ACSHE121

People use science understanding and skills in their occupations and these have influenced the development of practices in areas of human activity

Nature and development of science: AC9S7H01

Explain how new evidence or different perspectives can lead to changes in scientific knowledge

AC9S7H02

Investigate how cultural perspectives and world views influence the development of scientific knowledge

Use and influence of science: AC9S7H03

Examine how proposed scientific responses to contemporary issues may impact on society and explore ethical, environmental, social and economic considerations

AC9S7H04

Explore the role of science communication in informing individual viewpoints and community policies and regulations



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YEAR 8

8.4

Nature and development of science: ACSHE134

Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available

ACSHE226

Science knowledge can develop through collaboration across the disciplines of science and the contributions of people from a range of cultures

Use and influence of science: ACSHE135

Solutions to contemporary issues that are found using science and technology, may impact on other areas of society and may involve ethical considerations

ACSHE136

People use science understanding and skills in their occupations and these have influenced the development of practices in areas of human activity

9.0

Nature and development of science: AC9S8H01

Explain how new evidence or different perspectives can lead to changes in scientific knowledge

AC9S8H02

Investigate how cultural perspectives and world views influence the development of scientific knowledge

Use and influence of science: AC9S8H03

Examine how proposed scientific responses to contemporary issues may impact on society and explore ethical, environmental, social and economic considerations

AC9S8H04

Explore the role of science communication in informing individual viewpoints and community policies and regulations





YEAR 9

9.0

Chemical sciences: AC9S9U06

Explain how the model of the atom changed following the discovery of electrons, protons and neutrons and describe how natural radioactive decay results in stable atoms

Nature and development of science: ACSHE157

Scientific understanding, including models and theories, is contestable and is refined over time through a process of review by the scientific community

ACSHE158

Advances in scientific understanding often rely on technological advances and are often linked to scientific discoveries

Use and influence of science: ACSHE160

People use scientific knowledge to evaluate whether they accept claims, explanations or predictions, and advances in science can affect people's lives, including generating new career opportunities

ACSHE228

Values and needs of contemporary society can influence the focus of scientific research

Nature and development of science:

AC9S9H01

Explain how scientific knowledge is validated and refined, including the role of publication and peer review

AC9S9H02

Investigate how advances in technologies enable advances in science, and how science has contributed to developments in technologies and engineering

Use and influence of science: AC9S9H03

Analyse the key factors that contribute to science knowledge and practices being adopted more broadly by society

AC9S9H04

Examine how the values and needs of society influence the focus of scientific research



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8.4

Chemical sciences:

ACSSU177

All matter is made of atoms that are composed of

protons, neutrons and electrons; natural radioactivity

arises from the decay of nuclei in atoms



YEAR 10

8.4

Biological sciences: ACSSU184

Transmission of heritable characteristics from one generation to the next involves DNA and genes

Chemical sciences: ACSSU186

The atomic structure and properties of elements are used to organise them in the Periodic Table

Physical sciences: ACSSU229

The motion of objects can be described and predicted using the laws of physics

Nature and development of science: ACSHE191

Scientific understanding, including models and theories, is contestable and is refined over time through a process of review by the scientific community

ACSHE192

Advances in scientific understanding often rely on technological advances and are often linked to scientific discoveries

Use and influence of science: ACSHE194

People use scientific knowledge to evaluate whether they accept claims, explanations or predictions, and advances in science can affect people's lives, including generating new career opportunities

ACSHE230

Values and needs of contemporary society can influence the focus of scientific research

9.0

Biological sciences: AC9S10U01

Explain the role of meiosis and mitosis and the function of chromosomes, DNA and genes in heredity and predict patterns of Mendelian inheritance

Chemical sciences: AC9S10U06

Explain how the structure and properties of atoms relate to the organisation of the elements in the periodic table

Physical sciences: AC9S10U05

Investigate Newton's laws of motion and quantitatively analyse the relationship between force, mass and acceleration of objects

Nature and development of science: AC9S10H01

Explain how scientific knowledge is validated and refined, including the role of publication and peer review

AC9S10H02

Investigate how advances in technologies enable advances in science, and how science has contributed to developments in technologies and engineering

Use and influence of science: AC9S10H03

Analyse the key factors that contribute to science knowledge and practices being adopted more broadly by society

AC9S10H04

Examine how the values and needs of society influence the focus of scientific research



