



SCIENCE

This term in Science, our students will be curious, creative and hands-on explorers as they investigate materials and how they are used in the world around us!



REAL MATERIALS.
BIG QUESTIONS.
BRIGHT MINDS!

Prep Science

The Magic Hat

Our Prep students will become curious young materials scientists! They will explore everyday and natural materials and investigate their properties such as hard and soft, rough and smooth, strong and weak, and waterproof and absorbent through hands-on experiments, outdoor exploration, sorting, testing and play.

Students will also explore how First Nations Peoples have long used knowledge of Country and the properties of natural materials such as wood, bark, plant fibres and leaves to make useful objects for different purposes.

As the unit progresses, students will use what they have discovered to design, make and test their own hat, before proudly sharing their creation and explaining their material choices.



hard
or soft?



rough
or smooth?



strong
or weak?



waterproof
or absorbent?

Year 1-2 Science

Combining Materials for a Purpose

Our Year 1-2 students will investigate materials and their properties, and explore how different materials can be selected and combined for a purpose. Through hands-on investigations, they will identify natural and human-made materials, and test how materials can bend, twist, stretch and break. They will also investigate which materials are waterproof or absorbent.

Students will explore everyday objects made from more than one material and consider why particular materials are chosen for qualities such as strength, flexibility, comfort and water resistance. They will develop their scientific inquiry skills by predicting, testing, observing, comparing and recording results, while also exploring how Aboriginal and Torres Strait Islander peoples have used natural materials purposefully to create useful objects. Throughout the unit, our young scientists will discover that the properties of a material help determine what it is best used for.



NATURAL
and human-made
materials



bend, twist,
stretch or
break?



waterproof
or absorbent?



strength,
flexibility,
comfort?



Year 3/4 Science

Shelter Scientists: Materials Built for a Purpose

Our Year 3/4 students will become Shelter Scientists as they investigate how the properties of materials influence what they are used for. Students will explore and compare natural and human-made/processed materials, learning to describe properties such as strength, flexibility, absorbency, waterproofing and rigidity.

Through hands-on investigations, they will make predictions, conduct fair tests, collect observations and use scientific evidence to explain which materials are most suitable for different purposes.

Students will also explore First Nations knowledge of materials and Country and investigate how humans can learn from the clever structures found in nature.

The unit culminates in an exciting shelter design challenge, where students will apply everything they have learned to select appropriate materials, design and test a model shelter, and justify their choices using scientific evidence.



strength



flexibility



absorbency
and waterproofing



rigidity

Year 4/5/6 Science

Changing Materials

Our Year 4/5/6 students will become "Change Detectives", investigating what happens to materials when they are mixed, heated, cooled or exposed to different environmental conditions.

Through hands-on investigations, students will explore dissolving and crystallisation with salt, rusting steel wool, melting and cooling chocolate, and the irreversible changes that occur when popcorn is heated.

They will develop important scientific inquiry skills by making predictions, conducting fair tests, recording detailed observations, comparing evidence and drawing conclusions about whether changes are reversible or irreversible.

It promises to be a wonderfully practical term of observing, questioning, investigating and discovering just how much materials can change!

Change
Detectives



dissolving
and crystallisation
(salt)



rusting
steel wool



melting and
cooling chocolate



irreversible
changes
(popcorn)

SAME BIG IDEA...
MATERIALS MATTER!



DIFFERENT YEAR LEVELS.
REAL-WORLD CONNECTIONS.
CURIOUS MINDS FOR A BRIGHTER FUTURE!