

BREATHE, DON'T OVERTHINK
IT, YOU'VE GOT THIS!

Pre-Primary Science

Support your child's learning

Biological Sciences

- Identify the needs of humans such as warmth, food and water. List them with your child.
- Draw a picture of your pet and talk about your pet's needs for survival.
- Compare the needs of plants and animals using a Venn diagram.



PLAY

Earth and Space Sciences



- Think about how the weather affects our behaviour and how we dress for different conditions. Draw a picture of 3 people – One dressed for a rainy day; one for a sunny day at the beach; another for the snow.
- Understand how changes in the weather might affect animals. Watch videos of penguins creating a 'huddle'. Have your child draw what they observed and scribe 2 or 3 sentences about it.



DISCOVER

Science Inquiry Skills

- Make Oobleck from cornflour and water. Encourage your child to come up with a word to describe what they see, hear, smell, taste, feel. Use your five senses!
- Bake cookies together and observe/discuss how the dough changes throughout the process.

WHY DO
YOU
THINK...?

Chemical Sciences

- Sort and group materials by their properties such as colour, texture and flexibility. Give your child a container of random objects from around the home and help them to classify them into groups.
- Think about how the materials used in buildings and shelters are suited to the local environment.



EXPLORE

Physical Sciences



- Observe the way different shaped objects such as balls, blocks and tubes move (Can it spin, bounce, roll or slide?).
- Compare the way different sized, but similar shaped, objects such as tennis balls, & basketballs roll and bounce.
- Discuss how living things move differently. Cut pictures from a magazine of things that fly, run, swim and jump.



*It is not anticipated that you will complete all of these activities. Pick and choose the ones that your child will enjoy and remember to **have fun!**

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Year One Science

Support your child's learning

Biological Sciences



- Draw a picture of an animal and try to label its body parts such as head, legs and wings.
- Search for and take a photo of an animal. Look closely at the animal and ask; where do you think it lives? how does it protect itself? how does it eat?
- Grow a plant in a jar. Observe its growth.
- Draw a picture of a plant labelling the leaves and roots.
- Watch a video on what plants use their leaves and roots for.



PLAY

DISCOVER

Science Inquiry Skills

- Throw some different balls and find out which one went the furthest. Use informal measurements (steps, hand spans).
- Work with your child to create a picture graph showing the colours of the first ten cars to go past your house.

EXPLORE

Chemical Sciences

- Compare what happens to play dough, a cracker and rubber band when they are bent, stretched and twisted.
- Explore how materials such as water, chocolate or play dough change when warmed or cooled.



Earth and Space Sciences



- Explore your local area to identify and describe natural (bush, lake, ocean), managed (park, oval, garden bed) and constructed features (buildings, house, roads).
- Divide a piece of paper into four & draw what your back yard looks like in each season.
- Observe the weather for a week and record it using drawings.

"What will
happen
if...?"

Physical Sciences

- Look at the different sources of light around the home. Draw a picture of four things that make light. Discuss where the light is coming from outside.
- Explore different ways to produce sound by making a musical instrument out of household materials.



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Year Two Science

Support your child's learning

Biological Sciences

- Look at family photos and draw pictures of how a family member has changed from birth to now.
- Plant a seed and observe its growth.
- Watch a time-lapse video of a plant growing.
- Research or use adult's knowledge to draw the life cycle of a frog or butterfly.



PLAY

DISCOVER

Science Inquiry Skills

- Find a creature in your back yard and help your child research it. Create a poster.
- Ask your child to ring or Facetime their friends to find out their favourite ice-cream flavour between chocolate, vanilla or strawberry. Work with your child to create a picture graph or column graph of the results.

EXPLORE

Chemical Sciences

- Collect a random pile of objects from around the house. Ask your child to sort them by what they are made of. Discuss why different materials are used to make certain things because of their properties.
- Cook something together. Observe and discuss the effect of mixing different things together.



Earth and Space Sciences

- Identify the Earth's resources including water, soil and minerals, and describe how they are used around your house.
- Draw a poster for your house to encourage your family to save water.
- Watch a video of how water gets from dams to homes. Draw pictures of each step.



"What will
happen
if...?"

Physical Sciences

- Ask your child to create something with materials from around your home which will allow you to push or pull another family member across the backyard.
- Stand on a chair and drop different types of balls. Which one hits the ground the quickest? Are they being pushed or pulled?
- Watch videos of astronauts in space. Discuss gravity.



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Year Three Science

Support your child's learning



Biological Sciences



- Search around your home for living and non-living things. Draw pictures of five of each. Write next to each picture how you know whether or not it is living.
- Find a plant and animal in your backyard. Create a Venn diagram to compare the characteristics of both. ****Characteristics that overlap will be those of living things.**
- Ask your child to look in the cupboard and fridge for foods that are products of living things. Create a poster.

PLAY



Earth and Space Sciences



- Make a sundial and investigate how it works.
- Go outside and draw around the outline of a shadow. Come back every few hours and repeat. Discuss why the shadow moves.
- Research how big the sun is compared to the Earth and moon. Make models to represent their size. Be creative with what you use to make a model. A pile of washing could represent the sun and a marble could be the Earth!

DISCOVER

Science Inquiry Skills

- Measure and record the growth of a plant.
- Rub a slice of bread on door handles, the iPad, a phone & put it in a sandwich bag. Wash your hands and then touch a second slice of bread. Place it in a sandwich bag. Observe and record (take photos, draw pictures) of what happens to the bread over a period of time.

“What will
happen
if...?”

Chemical Sciences

- Work out the quickest way to melt an ice block.
- Make chocolate dipped fruit. Investigate how liquids and solids respond to changes in temperature.
- Research how plastic is recycled. Focus on the melting of plastic.
- Melt some old crayons and make new colours. Use ice trays as moulds.



EXPLORE

Physical Sciences

- Discuss what friction means. Think of 5 different ways to create friction in your home and display as a poster or on an iPad app such as Pic Collage.
- Ask your child to look for ways heat is created by electricity and burning in your home. Record their ideas in a video.
- Discuss conduction by getting out a selection of wood, metal and plastic cooking utensils. Ask your child to think about what each thing is used for and consider what it is made of.
- Download a thermometer app on your phone and ask your child to measure the outside temperature at the same time each day for a week.



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