

# Secus Questions

Episode 34 26<sup>th</sup> November 2019

## **Hong Kong Trouble**

- 1. Discuss the *Hong Kong Trouble* story as a class and record the main points of the discussion.
- 2. Where is Hong Kong? Find using Google Maps.
- 3. Why have many schools recently been closed in Hong Kong?
- 4. How did the kids in the BTN story feel when they saw the protests?
- 5. Hong Kong has its own currency and flag. True or false?
- 6. Complete the following sentence. Hong Kong used to be a \_\_\_\_\_ colony
- 7. When was Hong Kong handed back to China?
- 8. How is Hong Kong different to China?
- 9. What do you understand more clearly about the protests in Hong Kong?
- 10. What questions do you have after watching the BTN story?

#### **Venice Floods**

- 1. Briefly summarise the BTN Venice Floods story.
- 2. Where is Venice? Find using Google Maps.
- 3. How many tourists visit Venice each year?
- 4. How many islands does Venice sit on?
  - a. 11
  - b. 81
  - c. 118
- 5. Describe how the city was first built.
- 6. What has caused the long wooden piles to turn hard like concrete?
- 7. Complete the following sentence. Venice is affected by tides from the \_\_\_\_\_\_ Sea.
- 8. How is the MOSE project designed to help when tide levels rise in Venice?
- 9. Venice isn't a World Heritage Site. True or false?
- 10. What was surprising about the BTN story?

Get your class involved in BTN's Ask A Reporter. This week's topic is Venice Floods.



### **Hospital School**

- 1. Briefly summarise the BTN Hospital School story.
- 2. How long have hospital schools been around for in Australia?
- 3. There is a hospital school in each state of Australia. True or false?
- 4. Who goes to hospital school?
- 5. How many students are there to each teacher at hospital school?
- 6. What do kids do if they are at home but not well enough to head back to school?
- 7. How is hospital school similar to other schools?
- 8. What do the kids wear at hospital school?
- 9. How did the BTN story make you feel?
- 10. Leave a message of support on the Hospital School story page.



## **Rein Angel Inventor**

- 1. What did the BTN Rein Angel Inventor story explain?
- 2. Why did Colt invent the Rein Angel?
- 3. What did Colt discover when he started to talk to other horse riders after his accident?
- 4. Who did Colt design the Rein Angel for?
- 5. Briefly describe Colt's invention.
- 6. How does Colt's invention help to protect riders' hands if their horse takes off suddenly?
- 7. What is a prototype?
- 8. What prize did Colt win for his invention?
- 9. What invention couldn't you do without? Explain why.
- 10. What did you like about the BTN story?

Check out the Rein Angel Inventor resource on the Teachers page.

### **Bush Tucker Garden**

- 1. Retell the BTN Bush Tucker Garden story using your own words.
- 2. What are warrigal greens? A type of...
  - a. Spinach
  - b. Bean
  - c. Lettuce
- 3. Warrigal greens have to be cooked before you eat them. True or false?
- 4. What other plants are the kids growing in their Indigenous edible garden.
- 5. How many different types of native foods are there in Australia?
- 6. How long have Aboriginal and Torres Strait Islander people have been growing and harvesting native plants?
- 7. Other than for eating, how else are native plants used?
- 8. What are the kids making with the Indigenous ingredients?
- 9. In your own words describe what bush tucker is.
- 10. What did you like about the BTN story?

Check out the Bush Tucker Garden resource on the Teachers page.





# **Teacher Resource**

Episode 34 26<sup>th</sup> November 2019

# **Rein Angel Inventor**

# **Q** Focus Questions

- 1. What did the BTN Rein Angel Inventor story explain?
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- 9. What invention couldn't you do without? Explain why.
- 10. What did you like about the BTN story?

# Activity

## What do you think?

Students will respond to one or more of the following questions after watching the BTN story:

- What do you THINK about what you saw in the BTN Rein Angel Inventor story?
- What does this story make you WONDER?
- Think of three questions you have about the story. Remember that good questions are open-ended (have no right or wrong answer and can't be answered with a 'yes' or 'no').
- What did you learn from the BTN story?

# **Key Learning**

Students will learn more about inventions created by young people and design their own invention.

# **©** Curriculum

#### Science - Years 5 & 6

Scientific knowledge is used to solve problems and inform personal and community decisions.

With guidance, pose clarifying questions and make predictions about scientific investigations.

Reflect on and suggest improvements to scientific investigations.

#### Science - Year 7

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

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

# **⇔** Activity

#### **Glossary**

Students will brainstorm a list of key words that relate to the BTN *Rein Angel Inventor* story and inventions. Students may want to use pictures and diagrams to illustrate the meaning and create their own glossary. Here are some words to get you started.

Invention	Idea	Innovation
Prototype	Discovery	Science







### **Young Inventors**

Students will explore in more detail the winning inventions of the *Little Big Idea* competition. They can investigate all three inventions or choose one to find out more about.

#### Samuel's Hero Helmet

Watch the <u>short video</u> about Samuel's invention and respond to the following:

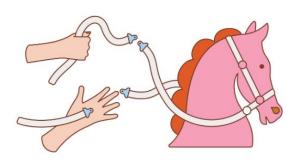
- Briefly describe the invention.
- What inspired Samuel's invention?
- How does it work?
- What materials is it made from?
- What problem does it solve?
- · What is unique about the design?
- What questions do you have about the invention?



### **Colt's Rein Angel**

Watch the <u>short video</u> about Colt's invention and respond to the following:

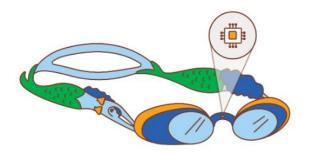
- Briefly describe the invention.
- What inspired Colt's invention?
- How does it work?
- What materials is it made from?
- What problem does it solve?
- What is unique about the design?
- What questions do you have about the invention?



## Jorja's Smart Goggles

Watch the <u>short video</u> about Jorja's invention and respond to the following:

- Briefly describe the invention.
- What inspired Jorja's invention?
- How does it work?
- What materials is it made from?
- What problem does it solve?
- What is unique about the design?
- What questions do you have about the invention?



Students can check out the Little BIG Idea finalists in each age group <a href="here">here</a> Do they agree with the judges' decisions? Give reasons why.





### **Design your own invention**

In small groups, students can design their own invention or make a modification to an invention (to improve the design or function of a product). Ask students to respond to the following:

- What are some real-world problems that need to be solved (think of some small and some big)?
   They could be problems that you have seen or experienced.
- · Choose one real-world problem from your list. What could you invent to help solve this problem?
- How does your invention work?
- · What materials is it made from?
- What is unique about the design?
- Draw a picture and name your invention.
- What inspired you to create your invention?
- Prepare for and present your invention to the class or wider community.

# Activity

#### Kids' inventions

Watch the following BTN stories featuring kids talking about their inventions which help solve real-world problems. Watch the story as a class and students will then respond to the focus questions. There are in=depth teacher resources for each of the stories.

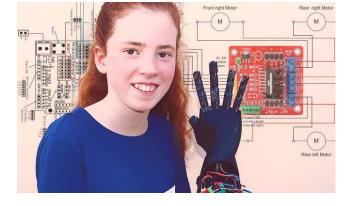
Young STEM Inventor – Video | Teacher Resource

- When did Max get involved in STEMSel?
- 2. What does Max do at STEMSel?
- 3. Explain what Max's invention BioBin does.
- 4. The waste put into the BioBin decomposes into...
  - a. Fertiliser
  - b. Methane gas
  - c. Both
- 5. Methane gas is worse than carbon dioxide. True or false?
- 6. What inspired Max to invent the BioBin?
- 7. How is Max helping to fight climate change?
- 8. Explain the success that Max has had with BioBin.

### Bionic Arm Builder - Video | Teacher Resource

- 1. Before watching the BTN story, discuss in pairs what you know about bionics.
- 2. What helped Hannah build the bionic arm?
  - a. Coding
  - b. Electronics
  - c. 3D design
  - d. All of the above
- What is bionic technology? Explain using your own words.
- 4. What can the bionic arm that Hannah built
- 5. Explain how the bionic arm works.
- 6. What materials did Hannah use to make the bionic arm?
- 7. What does the fishing wire in the hand act as?
- 8. How do the sensors on the bionic arm work?









Winners & Finalists 2019 – Little Big Ideas <a href="https://www.littlebigidea.com.au/2019-winners-finalists.html">https://www.littlebigidea.com.au/2019-winners-finalists.html</a>

Rein Angel – YouTube https://youtu.be/SQeDCU82hzM

Little Big Idea 2017 – BTN <a href="https://www.abc.net.au/btn/classroom/little-big-idea-2017/10522072">https://www.abc.net.au/btn/classroom/little-big-idea-2017/10522072</a>

Young Inventors – BTN <a href="https://www.abc.net.au/btn/classroom/young-inventors/10523760">https://www.abc.net.au/btn/classroom/young-inventors/10523760</a>

Aussie Inventions – BTN <a href="https://www.abc.net.au/btn/classroom/aussie-inventions/10531740">https://www.abc.net.au/btn/classroom/aussie-inventions/10531740</a>





# **Teacher Resource**

Episode 34 26<sup>th</sup> November 2019

# **Bush Tucker Garden**

# **Q** Focus Questions

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  - b. Bean
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- 3. Warrigal greens have to be cooked before you eat them. True or false?
- 4. What other plants are the kids growing in their Indigenous edible garden.
- 5. How many different types of native foods are there in Australia?
- 6. How long have Aboriginal and Torres Strait Islander people have been growing and harvesting native plants?
- 7. Other than for eating, how else are native plants used?
- 8. What are the kids making with the Indigenous ingredients?
- 9. In your own words describe what bush tucker is.
- 10. What did you like about the BTN story?

# Activity

### What do you see, think and wonder?

After watching the BTN *Bush Tucker Garden* story, students will respond to the following questions:

- What did you SEE in this video?
- What do you THINK about what you saw in this video?
- What did you LEARN from this story?
- · What was SURPRISING about this story?
- What QUESTIONS do you have about this story?

# Activity

### **Class Discussion**

Discuss the BTN *Bush Tucker Garden* story as a class, using the following questions to guide the discussion.

- What is bush tucker?
- Have you tried bush tucker?
- Can you name some bush tucker?
- Do you know how Aboriginal and Torres Strait Islander people collect and prepare bush food?









# Key Learning

Students will learn more about bush tucker and test their knowledge with the What am I? game.

# @ Curriculum

#### Geography - Year 4

The custodial responsibility Aboriginal and Torres Strait Islander Peoples have for Country/Place, and how this influences their past and present views about the use of resources.

#### Science - Year 4

Living things, including plants and animals, depend on each other and the environment to survive.

#### Science - Year 5

Scientific knowledge is used to inform personal and community decisions.

#### Science - Year 6

The growth and survival of living things are affected by the physical conditions of their environment.

Important contributions to the advancement of science have been made by people from a range of cultures.





# **Research Project: Bush Tucker Species**

Students will choose a bush tucker plant and create a profile. They can use the following structure to help guide their research.

Research project – Bush Tucker		
Scientific and common name		
Describe its appearance What does it look like (shape, size, colour, special features)?		
Locate where this species can be found using Google Maps		
Name the traditional custodians of this land		
How is the plant used?		
What does it taste like? How is it eaten?		
Photograph or illustration		

# Activity

## Create your own bush tucker garden

Students create their own garden at school or home. Watch the Making a garden for kids video for inspiration. Brainstorm possible garden designs and locations. Things to consider when designing a garden include position, type of soil and how much water the plants will need, then find edible plants that are native to the area. Students will need to consider how easy the plants are to obtain and the size of the plants - how large will they grow (how much space is available for the garden). Think about signage for the garden or an information brochure.



#### **Bush Tucker - What am I?**

Students will make their own What am I? game to learn more about bush tucker. To create the game, they will need to do the following:

- Research and write 5 clues to correspond with each Indigenous food in the What am I? worksheet at the end of this activity, with the first clue being the hardest and the last clue being the easiest.
- Include clues about the plant's special features.
- Students will test their game on a partner





### **Bush Tucker Recipes**

Students in the BTN story grow their own bush tucker and then cook with the plants to create delicious food. Below are some of their recipes. Students can research other recipes that feature bush food ingredients and create a class bush tucker cookbook.

### **WATTLESEED DAMPER**

### Ingredients

1 Cup Self Raising Flour

½ tsp salt

20g butter

1 tsp Roasted Ground Wattle seed

1/3 cup milk

### What to do

- 1. Preheat the oven to 200C
- 2. Measure and place flour in the large bowl with the salt
- 3. Cut the butter into cubes and rub into the flour
- 4. Make a well in the centre of the flour and add the milk.
- 5. Stir gently until combined, then knead for a few minutes.
- 6. Pat into a flat ball and place on the lined baking tray.
- 7. Cut slits in the top and brush with a little milk.
- 8. Bake in the oven for about 30 minutes
- 9. Remove from the oven and allow to cool a little.
- 10. Divide between 4 serving plates.

#### **WARRIGAL GREENS & FETA TRIANGLES**



#### Ingredients

4 frozen puff pastry sheets 2 large handfuls of Warrigal Greens 2 spring onions 60g feta cheese 60g mature cheese 1 egg

½ teaspoon nutmeg salt pepper

#### What to do

- 1. Preheat oven to 200°C
- 2. Wash Warrigal Greens in the sink.
- 3. Remove stalks
- 4. Roll up the green leaves and slice finely. Place in large saucepan with ½ cup water and put on stove on medium heat.
- 5. Cook leaves until wilted (about 3 minutes)
- 6. Remove saucepan from stove and carefully tip Warrigal Greens into the colander over the sink.
- 7. Use wooden spoon to gently press the Warrigal Greens to remove excess moisture, then tip the leaves into large mixing bowl.
- 8. Peel and finely chop the onion. Add to the mixing bowl.
- 9. Grate the mature cheese and add to the bowl.
- 10. Crumble the feta cheese into the bowl and mix well. Crack egg into bowl and mix well.
- 11. Add the nutmeg and a sprinkle of salt and grinding of pepper. Mix well.
- 12. Spread the pastry sheets out on the bench so they defrost.
- 13.Line 2 baking trays with baking paper.
- 14. Place a sheet of pastry on a chopping board and carefully cut the pastry into columns each way - so that you have 9 squares.
- 15.Brush 2 adjoining edges of each square with a little water. This will help the edges stick together.
- 16.Place a teaspoonful of the Warrigal Greens mixture onto each square. Carefully fold the corner over to make a triangle and press edges together. Place on baking tray.
- 17. When all triangles are done, place tray in oven for about 20 minutes or until golden.



#### **Bush Tucker - Museum in a Box**

The Bush Tucker – Museum in a Box from the Australian Museum examines the ways in which First Nations people use different methods to find, collect and process food. The box contains bush food specimens, bush smells, bush tucker environment posters, activity cards and books. Find out more information here.





# Useful Websites

Bush Tucker - BTN

https://www.abc.net.au/btn/classroom/bush-tucker/10532360

Bush Food - BTN

https://www.abc.net.au/btn/classroom/bush-food/10530342

Australian bush tucker industry push to transform native foods for international consumption – ABC News https://www.abc.net.au/news/2019-11-17/native-bush-foods-australian-bush-tucker-going-global/11658008

Indigenous community starts harvesting red bush apple that has high-end restaurants lining up - ABC News https://www.abc.net.au/news/rural/2019-11-21/attica-restaurant-lines-up-for-taste-of-indigenous-bushapple/11713876

Making a garden for kids - ABC Education http://education.abc.net.au/home#!/media/30771/?id=30771





# What am I?

Choose 5 bush tucker plants or use the five plants below. Write 5 clues to correspond with each plant. Include clues about the plant's appearance, taste and use. Cut up the cards and test a partner to see if they can match the bush tucker to the clues.





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## What am I?

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## What am I?

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## What am I?

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# What am I?

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Images: 1. Quandong 2. Lilly Pilly 3. Desert lime 4. Warrigal greens 5. Bunya nut





# BTN Transcript: Episode 34 – 26/11/19

Hey, I'm Amelia Moseley. Welcome to BTN. Here's what's coming up. We find out why Venice is sinking, get a taste of bush tucker and an incredible invention from a young Aussie.

## Hong Kong Trouble

Reporter: Amelia Moseley

INTRO: All that and more very soon. Now, we first told you about the protests going on in Hong Kong a few months ago, Well, they haven't stopped. People in Hong Kong say the protests have become more intense. We found out why they're still going and check in with some kids who live there.

Having a day off school isn't that unusual, but recently all schools across Hong Kong were told to close for nearly a week because of scenes like this.

JAXSON: They cancelled school for six days, so when we got back to school we had to do a lot of catching up.

TAYTUM: We had those days off because it wasn't safe getting to school for other people and it might've been hard to get to school.

Big protests have been going on in central Hong Kong for about six months. But recently, the clashes between police and protesters (many of them students) have become more violent and destructive; something locals like Taytum and Jaxson say has been pretty scary to witness.

JAXSON: I came there at a time when the protesters weren't there, and it was really scary, because I didn't know when they were gonna come. Out there half the streets were broken because there are bricks everywhere.

TAYTUM: It sometimes scares me if I hear something not good and like things are getting more violent.

The protests started because of a law that Hong Kong's government wanted to bring in that protesters said would've given China greater influence over Hong Kong and its citizens. You see, while Hong Kong is technically a part of China. It's a Special Administrative Region. That means it has its own laws and government and its own currency and flag. That all came about after Hong Kong, which used to be a British colony, was handed back to China in 1997, but only with the special condition that Hong Kong would be left to mostly do its own thing for the next 50 years.

Hong Kong is pretty different to China in that people here have rights that people in China don't have. Like the right to freedom of speech and the right to protest and some people in Hong Kong say they're worried about those rights being taken away from them. In early September, the law Hong Kong's government wanted to bring in was officially scrapped. But why haven't the protests stopped? Well, protesters say it's about more than just that law now.

PROTESTER: We will fight until we win the whole, like, movement.

They have a few key demands for the government including an inquiry into the way they say police have been treating them and another really big one, Universal Suffrage. That's basically a way of saying they want Hong Kong to be a democracy where everyone gets to vote, and their vote chooses the people who are going to represent them in government, which is how things work in Australia.

Right now, only some of Hong Kong's politicians are elected by the people and Hong Kong's elected leader must be someone approved by the Chinese government. Protesters have also called for Hong Kong's leader, that's this person Chief Executive, Carrie Lam, to step down. She doesn't support what protesters are doing.



Some people in Hong Kong aren't worried about China's influence or they even want Hong Kong to have stronger ties with China. The situation's left a lot of locals here feeling unsure about what will happen next.

TAYTUM: It makes me feel sad. Like I knew Hong Kong was a very safe place and it was peaceful and so the protesters start, it's just changed. I hope it will stop, the government will hear what the protesters are saying and come to an agreement where it will end.

### This Week in News

There's been some good news for these koalas which were injured in the bushfires near Port Macquarie in New South Wales. The Koala Hospital that's caring for them has raised more than a million dollars in donations. It was struggling to care for all the animals that needed help, so it set up an online fundraiser with the aim of making about 25 thousand dollars. Obviously, they made way more than that and the hospital says it'll use the extra money to build drinking stations for koalas out in the bush and a sanctuary for the koalas to live in once they're healthy.

Meanwhile in Egypt, some not so healthy but very interesting animals have gone on display. These mummified critters were found last year in ancient Egyptian tombs. Their owners believed that by mummifying animals they could take them along to the afterlife when they died. They preserved all sorts of animals, birds, beetles, crocodiles, and lots of cats.

Speaking of unusual surprises, Tesla has unveiled its first ever electric ute, and boy is it weird looking. It's called the cybertruck and Tesla says it's fast and powerful. It's also made of stainless steel and has windows that can't break. Oops. But it was cybertrucks' unusual looks that had the internet talking and joking. Still, there were plenty of fans with more than 180 thousand people pre-ordering their own cybertruck.

And a 9-year-old kid in the Netherlands is about to become the world's youngest Uni graduate. Laurent had graduated school by the time he was seven then took on a degree in electrical engineering which he finished in nine months. Yeah, he's pretty smart. Laurent says he wants to eventually make artificial organs to help heart patients like his grandparents. Good on va. Laurent.

#### Venice Floods

Reporter: Nat Kelly

INTRO: Venice is known as the floating city, but right now, it's going through one of its worst floods in decades, and it's caused massive damage to some historic landmarks. So, what's being done about it? Nat finds out.

Welcome to Venice. It's the city of bridges, with water canals for roads, and gondolas instead of taxis. It's so famous, it attracts around 30 million tourists a year. That's roughly 700 times more than the number of people that actually live here. And while this is the Venice you might think of, this is actually what Venice looks like now. It's experiencing some of its worst flooding in decades. Italian Officials say the situation is getting worse the more Venice sinks and sea levels rise. But wait, how is an entire city sinking? Well, to understand that, we need to go back a bit. Venice sits on 118 little islands in this big lagoon and creating it around a thousand years ago took some doing.

NAT: The city was built on top of millions of super long wooden piles that were hammered into the soft mud. Then on top of these, they built platforms. Sort of like a jetty, except with way more wood.

Because they were buried so deep in the mud, and without oxygen, the wood actually absorbed minerals in the water, turning it hard like concrete.

NAT: Super sturdy and cool. Or so they thought.

Eventually, the Venetians decided to drill some water wells deep underground. But after a while, people suspected the holes in the ground were causing the city to sink, so they stopped all that. But Venice still seems to be slowly sinking. And there's another problem: the water around Venice is rising. Venice is affected by tides from the Adriatic Sea, and those tides are what cause the floods. They happen almost



every year, and sometimes they're massive.

When the tide rises really high in Venice it's known as an Acqua Alta, or high water. An exceptional storm tide is anything over 1.4 metres. But let's put our thinking caps on for a moment

NAT: If we can't stop it sinking, is there a way we can stop it from flooding?

Well, the Italian Government's already thought of that. This is called the MOSE project. It's a series of 78 massive underwater gates that can rise to the surface when a storm tide is expected, basically acting as a temporary wall to keep the water out. They started planning it more than 30 years ago and it will probably end up costing over 11 billion dollars. It's had tonnes of setbacks, and it's still not completed.

But some people worry that when it is done, it might even work that well. The gates would have to be up a lot because sea levels are rising, and city officials say that's set to get a whole lot worse with climate change. And while big tides cause problems for Venice, regular tides are actually really important; they help "flush" out the lagoon by getting rid of its waste. If the gates are up all the time, that won't happen. So, the government's looking at other ways to help protect this World Heritage Site.

The flooding hasn't stopped millions from visiting, with many using huge cruise ships in the small canals, which also damaged the city's foundations. So many people visit, the mayor of Venice is actually bringing in an entry fee for tourists. That money could go towards helping solve some of the city's problems. But for now, Venice has a big cleanup ahead.

# Ask a Reporter

Do you want to know more about Venice? Well, we'll be around to answer live on Ask a Reporter this Friday. Just head to our website for all the details.

### Did You Know?

Did you know? One of the narrowest streets in the world is located in Venice. It's called Calletta and is only 53cm wide.

### **Bush Tucker Garden**

Reporter: Jack Evans

INTRO: Now when you think of typically Aussie foods you probably think of meat pies, lamingtons, vegemite. Look the list goes on. But a team of scientists and researchers in Queensland reckon it's about time we Aussies looked to the bush for more traditional Aussie Tucker. Jack went along to a school that's doing just that.

JACK: This might look like an ordinary garden filled with ordinary plants. But those in the know will tell you, it's more like a kitchen pantry filled with delicious foods just waiting to be cooked. And that's exactly what these guys plan on doing.

CLAIRE: Jack. You know you can't eat that, it has to be cooked first.

JACK: Yeah, I knew that.

DOUGLAS: Well this is our Indigenous edible garden. We have lots of Indigenous plants that we like to use for cooking. We look after the plants, we plant the plants, we also put mulch around make the place look nice, we water the plants and take care of them. It's really fun getting your hands dirty.

JACK: So, what is this?

MIA: This is warrigal greens, they're a type of spinach. They grow like a lot.

JACK: And we can't eat them?

LOGAN: You can, but you have to cook them first, so you don't get sick.

JACK: Ok, well that's good to know.



The garden also includes stacks of other native foods like lemon scented grass, wattle seed and Old Man's Salt bush.

JACK: And what can this be used for?

ASHLEY: Soups and salads.

They're just some of the almost 6 and a half thousand different types of native foods or bush tucker our country has to offer. For the past 60 thousand years Aboriginal and Torres Strait Islander people have been growing and harvesting native plants and not just for food. Some are used for healing like Arrethe which can help ease cold and flu symptoms or some are used to make tools like Cumbungi which can be weaved to make nets. But the plants in this garden are used for cooking.

JACK: Right, so we've got our warrigal greens from the garden what are we going to be making?

MIA: we're going to be making warrigal greens and feta triangles.

JACK: Yum, do you want some help cutting?

MIA: Yes please, you have to do them very fine.

JACK: I will do them very fine.

In the past few years the Bush Tucker industry has really taken off with things like Kakadu plum yogurt, bush apples and goats cheese coated in a lemon myrtle and green ant crumb, delish. Now a group of scientists from the University of Queensland reckon its time Aussies embraced the native foods our country has to offer. So, they've been working with local Indigenous communities to try and boost the bush tucker industry in Australia and take it global.

MADONNA THOMSON, NYANDA ABORIGINAL CULTURAL TOURS: It means we get to reinforce that information for ourselves and then share that passion and knowledge. Not only with members of our family groups but with the public as well, so that we can develop a combined appreciation of just how wealthy Australia is in terms of its native foods.

JACK: And on that note, I think it's time to eat.

#### Quiz

Which of these is native to Australia? Is it

Peanuts Almonds or macadamia nuts?

It's macadamia nuts. They're also known as the Queensland nut, or bush nut.

### **Hospital School**

Reporter: Leela Varghese

INTRO: If you're sick, it doesn't mean you have to miss out on school. That's the message for tens of thousands of kids around Australia who spend time in hospital every year. Leela went along to a hospital school to find out what it's like.

LEELA VARGHESE, REPORTER: I might be in a hospital but I'm actually heading to school.

This is where kids who are too ill or injured to head to school keep up to date with their school work. It's called Hospital School. You might not have heard of it before but schools like these have been around for about 100 years in Australia. They started out as just one teacher, then grew and grew and now there's one in each state. Today we're at the South Australian Hospital School. They get thousands of students a year from pre-school to senior school and they come from all over the state.

MATTHEW McCURRY, PRINCIPAL: We work with children who are recovering from an injury, who are



facing treatment from a health issue and also their brothers and sisters if they are from remote of regional areas.

Each day is different here depending on which students are coming in and what their needs are. Bailey here is learning in the classroom.

LEELA: Is Maths your favourite subject?

BAILEY: No.

LEELA: What's your favourite subject?

BAILEY: Sport.

LEELA: Where does Maths fall?

BAILEY: To the bottom.

LEELA: Down the bottom.

And there's kids like Ruby who are taught on the ward which is always one on one learning.

RUBY: You're talking like one on one with the teacher, so you can ask more questions and get lots more feedback.

LEELA: How do you find it having that one on one relationship with the teacher?

RUBY: Well you have to get along well with the teacher, because otherwise then it would be pretty bad.

LEELA: It would be pretty bad wouldn't it.

RUBY: Yeah. But you also have to know that it's still school and you're going to have to be wrong so the teacher's there to help you.

And there's online, it's for kids who are now at home but not well enough to head back to school.

LEELA: Hey Anika how you doing?

ANIKA: Hi I'm doing good. You don't have to wear like a school uniform you can just wear your pyjamas. I'm learning about verbs, I'm working on my reading and I'm working on my writing.

LEELA: Do you ever pretend to just be frozen if you don't know how to answer a question?

ANIKA: Hmm no.

LEELA: No.

RUBY: When I'm well enough I'm allowed to go back to usual school and it really helps because I'm not worried about schoolwork and I'm not having to catch up when I go back to school.

ANIKA: I'm going to know the things that the other kids know.

Each student has a different curriculum to follow based on the things they were learning before they came here.

RUBY: You're not pressured to do any work so if you aren't feeling that well then, it's okay to not be able to do it.

Even though it's run a little differently, Hospital School is really like any other school, where everyone has their favourite things to learn about.

BAILEY: Art because I can draw Pokémon.



LEELA: Look at how cool that is.

RUBY: In hospital I've actually learnt how to play the drums.

ANIKA: I do like writing because you can make a story that's about yourself and it can totally not be true or be really true and it's just fun.

## **Sport**

Australia's had a big win in the first test against Pakistan in Brisbane. They won by an innings and five runs, but Pakistan batted really well on the fourth day, nearly forcing the Aussies to bat again. Marnus Labuschagne starred for Australia, with 185 runs, and was named man of the match. The two teams now head to Adelaide for the second and final test.

Still on cricket, and it's been an exciting weekend in the women's Big Bash League. The match between the Adelaide Strikers and Sydney Thunder came down to a super over, after teams were level on six for one hundred and sixty one after their twenty overs. That meant playing any additional over, and Striker's spinner, Amanda Jade Wellington, kept the Thunder to just six runs. Adelaide polished off the required amount in three balls. Now the Strikers are guaranteed a spot in the finals.

Spain has claimed its sixth Davis Cup title. The world Number 1, Rafael Nadal, led Spain to victory. He went undefeated in the week-long tournament.

And check out these awesome moves from the freestyle Kiteboarding World Championships in Brazil. This year 15-year-old Mikaili Sol took out the women's title. It was no surprise for her fans. The Brazilian has already won 3 of the 4 world cup events this year.

SOL: I am super happy to be, to have this world title especially here at home with all the people, all the Brazilians, it's super exciting and hopefully next year I will be able to get it again and do the surf tour again maybe.

And Colombian Balentin Rodriguez managed to snatch the men's title in the final moments of the comp.

BALENTIN RODRIGUEZ: The level now is just insane. Everyone is pushing the limits and yes, I can't be happier with this first place.

The world went mad last week when Ben Simmons made a three pointer.

Now it might not seem such a big deal for an NBA player to shoot a three, especially one of the world's best NBA players, but Simmons is kind of known for not doing it.

In fact, it's become a bit of an NBA talking point the past couple of years. Well, not anymore.

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### Rein Angel Inventor

Rookie Reporter: Colt

INTRO: An eleven-year-old school kid's beaten thousands of entries around the country to win this year's littleBIGidea competition. Colt came up with a device to stop kids like him from getting horse riding injuries. Here's Colt to tell us all it.

COLT: Hi guys I'm Colt, thanks so much for giving me the opportunity to present my Little Big Idea to you. This is bubbles, in January this year I was leading her like I am now when she got scared and took off on me. The lead rope got caught on these three fingers here severing them above the knuckle.

KRISTEN CROSER, COLTS MUM: He was then rushed to Canberra hospital where they tried to do about six hours of microsurgery.

COLT: While I was in hospital I was trying to work out what I did wrong and what I could have done differently to avoid losing my fingers. When talking to other horse riders after the accident I learnt that this type of accident was quite common in horse riding. So, I wanted to invent something that would stop this type of thing happening to other people. That's when I had the idea for the Rein Angel. I thought if we could make a lead rope that had a safety clip in them. This was if the horse took off the rope would simply snap letting the horse get away while protecting the rider's hands

MACINLEY BUTSON, LITTLE BIG IDEA AMBASSADOR: Colt's idea I think was one that really did strike us for its simplicity. When we looked at it, it seemed like something that should have already been invented before.

CAMPBELL KERR, TEACHER: I think Colt's idea is home grown, I think it's very personal to him. The fact that it was, not just about him but solving this problem. I think it's a powerful sort of idea.

COLT: As you can see I have a few different prototypes and when we were testing this prototype, it had snapped in there. So, what we wanted to do was make the thread stronger, round off them and just all come out and put the slit back in more, so it would like come out easier. Then we realised that the lead rope would not fit through there. So that's when we came up with this prototype. It has rounded off edges, the slit is back more, the thread is stronger, and we can fit the lead rope through there.

MACINLEY BUTSON, LITTLE BIG IDEA AMBASSADOR: He'd gone a step further and he'd done a little bit of testing, done a little bit of prototyping figured out what hadn't worked and then re-thought about his idea. Colt you're actually the winner and you'll be going to NASA.

CAMPBELL KERR, TEACHER: He's done a remarkable job, I'm really proud of him. I'm really proud of how resilient he's been, yeah, it's amazing.

COLT: Yeah, I want to be an inventor now and like help the world and stuff.

### Closer

Ah great work Colt. Well that's it for now but we'll have a very special final show of the year for you next week. In the meantime, you can check out our website for the latest news. See you then.

