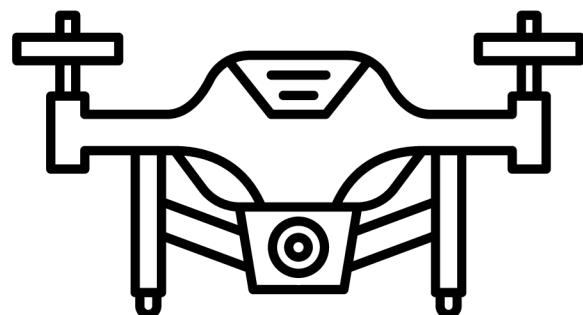
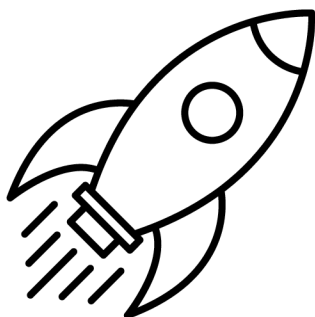
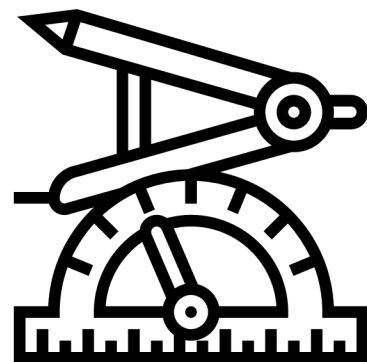
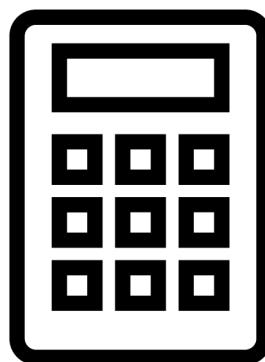
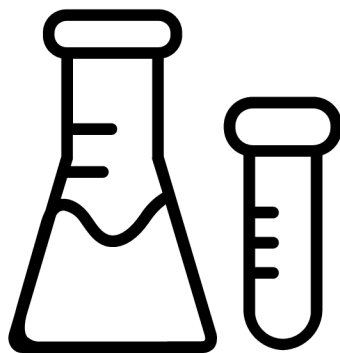


Finding the ME in STEM



Stuart's student activity pack

Imagining the Future

Let us take you on an incredible journey into the world of space exploration with the Callistan Cycle.

The Callistan Cycle is a series of five short stories from our Imagining the Future series that explore STEM areas like robotics, AI, climate change and resource management.

You can read, watch or listen to each story, for free.



Far Out! by Lili Wilkinson

As the seconds count down to the launch of humanity's first family into deep space, young stargazer Stella is sure that today is going to be the most exciting day of her life. But she has no idea of just HOW exciting and terrifying and important it will be. And what it will mean for the future of interstellar travel.

Join the Kaufmanns as they go FAR OUT! in a story that explores space and robotics.



SCAN ME



Calculating Apple Pie by Melissa Keil

Kal and her sister Arche are hurtling through space towards Callisto in a ship shaped like a beluga whale that is the size of a city block. Arche does something a bit (very!) reckless to try to help her sister feel a little less homesick.

Calculating Apple Pie explores future food production and coding and how tampering with it can cause serious real-world problems.



SCAN ME



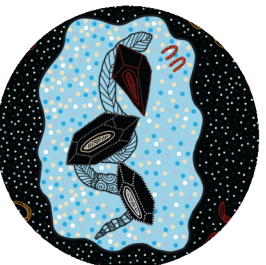
Semper by Rebecca Lim

Shang travelled to Callisto on the Hohmann transfer from Earth, which took almost six years. She sacrificed everything for the chance to explore distant moons for resources and critical minerals, but gets paired with a Drobo called Semper that always wants to play, like a real dog. Shang doesn't have time for games, so why has she been paired with such a useless Drobo?

Semper explores robotics, AI and mineral exploration.



SCAN ME



Proof by Gary Lonesborough

Tanner has been noticing that lots of people in his town on the lunar outpost on Callisto are getting sick. What is causing this mysterious illness plaguing his community? Tanner's sister Rachel thinks she knows what's causing it and takes Tanner on an eye-opening adventure where they discover a lot more than just the cause of the illness.

Proof explores filtration, waste management and environmental science.



SCAN ME



Earthbound by Alison Evans

Pen and their father have arrived on Earth. Pen's comms device isn't working, and when Pen tries to fix it, they hear a strange rhythmic sound coming from it. Determined to figure it out, Pen seeks the help of an android to help decipher the mysterious sound.

Earthbound explores transportation and telecommunication.



SCAN ME



Comprehension Questions

To answer these questions,
watch Stuart's film first.

Name two things Stuart is
good at.

1.

2.

What does Stuart love most about being a nurse?

Name two things Stuart
can't do.

1.

2.

What did Stuart have to do to succeed in his studies in
the western world?

Why did Stuart want to
become a nurse?

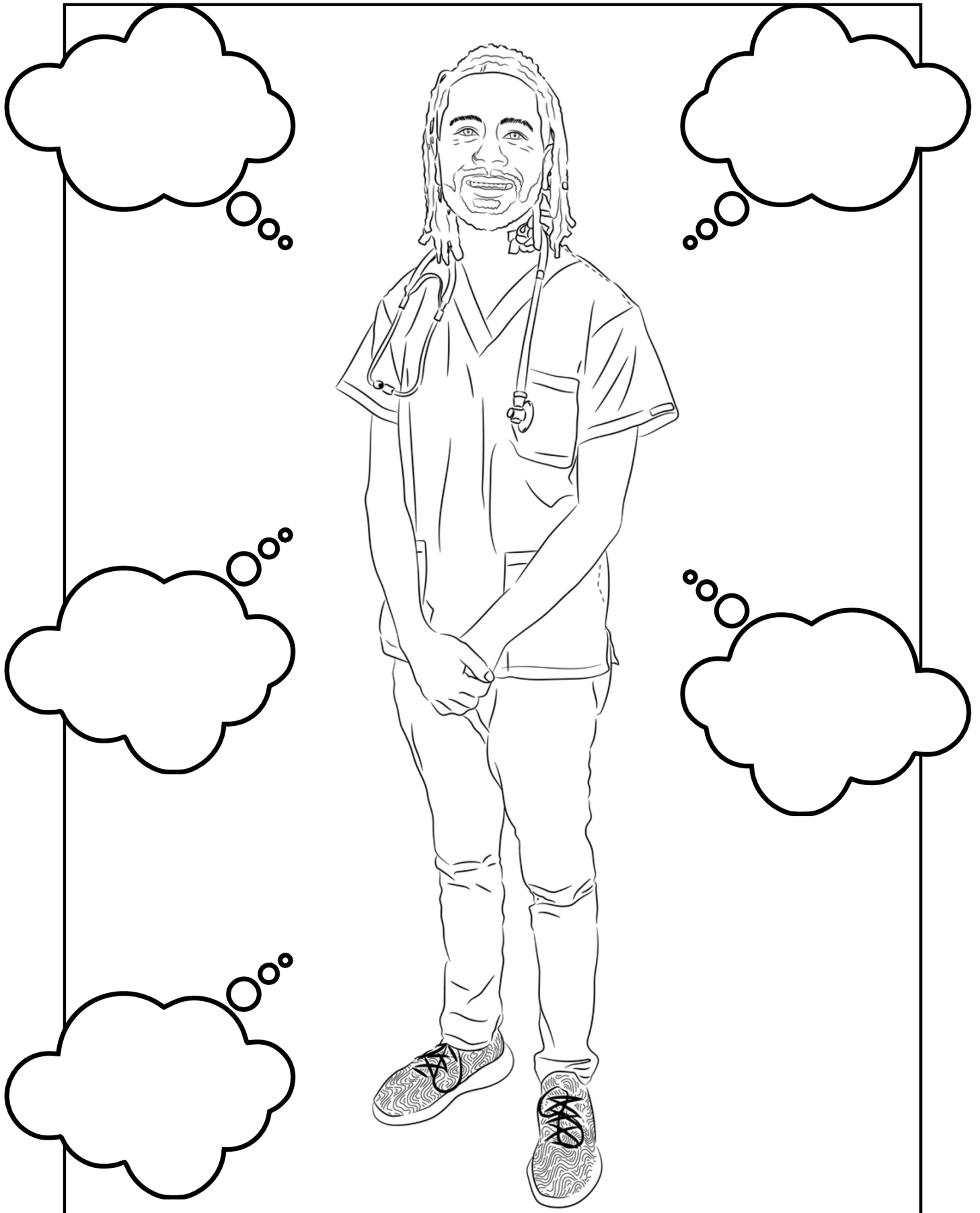
Why does Stuart say more Yolgnu people need to go into
nursing?

What kind of pet does
Stuart have?

Where does Stuart want to be in 10 years?

What advice does Stuart have for anyone thinking about a career in nursing?

Meet Stuart. He's a registered nurse working in a health clinic in his local community. Fill in the bubbles with 5 STEM (Science, Technology, Engineering and Mathematics) skills he uses in his job. Which of these skills do you think is most important? Which do you think would be the hardest to develop? When you've thought of the skills, colour in the rest of the image.



Pathfinder Workwords

Registered Nurse

S H E R U T L U C T N Y P P A H H T S L J P M
M T P N U V B N L D Q U S Y V E U D E X A N E
Q E I R I M O B D Y F I R I G A N X P T Y B M
L Z T N O C G N A E C O K S M L T O I W O M P
K L G G G Y I E F J Y C P Y E T I E K W U Y O
E F M C X R M D E T U F Y I V H N F M G J D W
J D U W E V A N E O H N E V H T G D R O N U E
V T U J O E G Y G M K A A D C S S D Z D K T R
Z E E C R E S U S C I T A T I O N X F L K S S
G F T A A U E T T B C C I N I L C I O L B K A
W A C Q N T U B D Q S G S I Z Z S Q K U T R U
T S S L A U I S P E A R J P M H C X Z B K E A
Z P O E R D X O O A U M Z Y I J L P Z Z H E Q
F Y O V Y F W I N T V N I N Q W Z R W Y U Y S
V P P E P S I K L D Z P G I I M B P Z E F S K
U F M V M U J S I V J F H Z B X Q R Q N O F E

Find 20 words connected to Stuart.

- | | |
|--------------|-------------------|
| 1. BULLDOG | 11. MEDICINE |
| 2. CARE | 12. NURSE |
| 3. CLINIC | 13. OCEAN |
| 4. CULTURE | 14. PATIENT |
| 5. EDUCATION | 15. RESUSCITATION |
| 6. EMPOWER | 16. SPEAR |
| 7. FISHING | 17. STINGRAY |
| 8. HEALTH | 18. STUDY |
| 9. HUNTING | 19. TURTLE |
| 10. KINSHIP | 20. YOLNU |

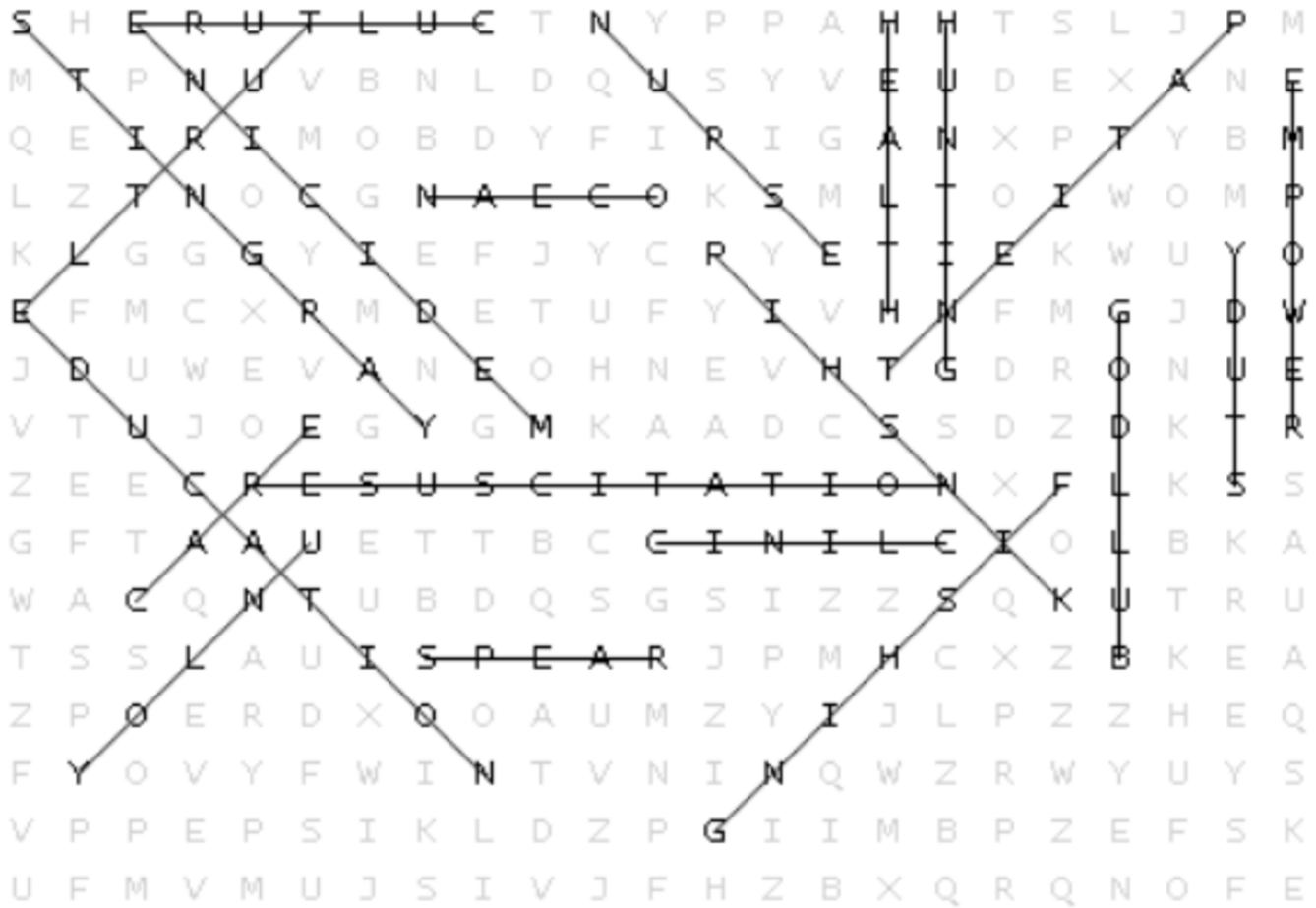


Scan this QR code to find out more about Stuart.



Pathfinder Workwords

Answers



Let's reflect

Were any of these words new to you? Look them up and find out what they mean.

Which of these skills do you think you are best at, or would like to get better at?

1. _____

2. _____

3. _____

Can you think of anything else Stuart might need to do his job?

A day in the life of a registered nurse

- 9.00am** A late start for me today. I was up at 3:30 a.m. looking after a young patient who was struggling to breathe. I gave them some medicine, which helped, and we were able to give them some relief.
- 9.15am** I make a coffee and grab some food as I walk out the door. We have a 9:30 a.m. meeting at the health clinic every day. I'll talk to the team about my patient from last night, and we'll discuss the patients we'll be helping today.
- 9.30am** Team meeting with the whole clinic. We have a patient who has a low platelet count. Platelets are tiny cells in your blood that help it clot, which is how your body stops bleeding when you get a cut or injury. The patient's platelet count is so low that we need to medevac her to Darwin.
- 10.30am** The team meeting is over, and it's time to do what I do best: help people. I open the door to see who is waiting, and I already have three patients. The first is here to take their monthly medicine. It's easier to keep it at the clinic because it needs to be stored at a certain temperature. Patient two just needs a couple of band-aids for some cuts on their fingers. Patient three is here for a blood test. I suspect they might have low iron, which is why they're feeling so tired.
- Midday** My eyes feel like there's sand behind them. I'm tired from being on call last night. I go home for a nap.
- 2.30pm** I wake up and head to the local shop. I need to get some food for dinner. I want to make some roasted kangaroo tail, but they don't have any. I'll have to have something else for dinner tonight.
- 3.30am** My colleague said I can use the clinic car this arvo to spend some quality time with my family. My dog, a British Bulldog called Martina, loves swimming, so we all jump in the car to cool off.
- 4.15pm** We arrive. My daughters and Martina immediately cool off in the creek, while my cousin and I build a fire to warm us up after we finish swimming. Martina has the best time. She runs around, sniffing all the wonderful smells, and enjoys being out in nature. This is one of our favourite spots.
- 5.30pm** While we have the car, we decide to go see the wetlands to see if we can spot any buffalo. We get lucky. It's an incredible sunset, and the buffalo are very active. We see all sorts of wildlife enjoying the sunset — birds, buffalo, and also Martina.
- 7.00pm** We get back home and I return the car. The local café is open, so we all go there and catch up with friends. Kinship and community are really important parts of my heritage. Connecting at the end of the day fills my cup and reminds me why I became a nurse: to help my community live healthier lives.
- 9.00pm** I get home, sit on the couch, and pop on some Netflix. I'm on call again tonight, so I have the work phone with me. When it rings, it's up to me to triage the call. Triage is a medical word that means sorting patients by how badly they need help.
- 11.00pm** The medevac is here for the patient with the low platelet count. I get the ambulance from the clinic and drive to their house to pick them up and take them to the airport.
- 11.30pm** I hand over the patient to the medical staff who are here for the medevac. I make sure they have all the patient's information, and I make sure my patient understands where they're going and why. The patient is boarded, and I watch the plane take off. The work phone rings. Another patient needs my help.

Registered Nurse

Stuart is a nurse who helps people stay healthy in a remote community in the Northern Territory. He communicates bio-medical knowledge into Yolgnu Matha — the native language of his people.

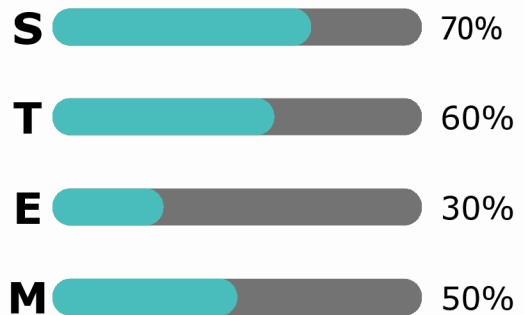
futureyouaustralia.com.au/pathfinders/stuart



"My inspiration came from the poor health outcomes that I saw growing up."

STEM Meter

How much Science, Technology, Engineering and Mathematics (STEM) does this job use?



Source: jobsandskills.gov.au

5 reasons why you should do this job

- 1** Help people feel better, body and mind.
- 2** Learn lots about the human body.
- 3** Use cutting-edge medical technology.
- 4** Work closely with people every day.
- 5** Make a real difference in people's lives.

3 STEM skills required for this job

Research

Data management

Problem-solving

Subjects to develop these skills

Science, Humanities and Social Science

Science, Mathematics

Design and Technologies, Digital Technology