

Welcome to Future You



Future You is an initiative from the Australian Government's Women in STEM Ambassador, funded and supported by the Commonwealth Department of Industry, Science and Resources.

Future You addresses stereotypes, misconceptions and biases about science, technology, engineering and mathematics (STEM). It's a free program designed to increase participation in STEM by inspiring children aged 8 to 12 to explore STEM themes.

What do we offer?

- Free classroom resources aligned with the Australian Curriculum V9.0.
- Five STEM-fiction stories to excite imaginations and inspire exploration.
- First-hand accounts from people using their STEM skills to make the world a better place.
- Information and practical tools for parents and kids about STEM skills and careers.

Here are two sets of resources we think you'll love using in your classroom:

Pathfinders

Introduce your students to interesting people working with STEM skills to make the world a better place. We know how important role models are for inspiring young people's career choices, and you can't be what you can't see, which is why we have interviewed fascinating people who come from various backgrounds to ensure every child can see themselves working in STEM.

Imagining the Future

Take your class on an incredible journey into the world of space exploration with Imagining the Future. Set in the vastness of space, these five stories delve into different sectors of STEM, offering a captivating exploration of robotics, AI, climate change, resource management and more. These stories will inspire your students to envision their own STEM space careers.

⇒ Classroom activities

We've developed practical activities you can use in your lessons to make learning experiences socially relevant. Did we mention they're aligned to the Australian Curriculum V9.0?

See you in the future

We have developed a wide range of free resources to support teachers, parents and kids to discover the amazing world of STEM. Discover them all at www.futureyouaustralia.com.au

FUTUREyou

What's in this pack

This pack includes activities that are all related to Skye's film. Each Pathfinder has its own Teacher's Pack. You can find them on their individual pages or on the resources page under the *Pathfinders* or *Teach* tabs.

Our Imagining the Future short-fiction series also includes fantastic resources you can use in the classroom. The Bloom's Taxonomy and Gardner's Multiples Intelligences activity matrix includes a wide range of activities for your lesson plans that cover multiple areas and year levels in the Australian Curriculum V9.0.



Capability Convos

A short starter activity that can be adapted to other uses to get students thinking about the General Capabilities statements in the National Curriculum V9.0

Comprehension questions

Watch Skye's Pathfinder film as a class or individually, and then your students can practise their comprehension skills by answering these questions (answers included).

Career information sheet - for adults

This document provides practical advice for adults who are looking for ways to support students in understanding the different pathways they can take into specific career roles. This information sheet can also be passed on to parents if a student demonstrates an interest in a particular career area.

Classroom wall poster

An attractive poster that can be printed out and placed on a wall to highlight some of the skills required in Meredith's career so students can see themselves reflected in those skills.

Student skills brain break

Students can undertake this activity for mindfulness while thinking about their own skills and talents.

Word-search answers

The student's pack includes a word search with words relevant to Skye's career. Find the answers here.

Capability Convos

Australian Curriculum V9.0 links for
Years 3 to 7

English

- Language
- Literacy

General Capabilities:

- Critical and Creative Thinking
- Personal and Social Capability
- Ethical Understanding
- Literacy

Learning outcomes:

All students will be able to:

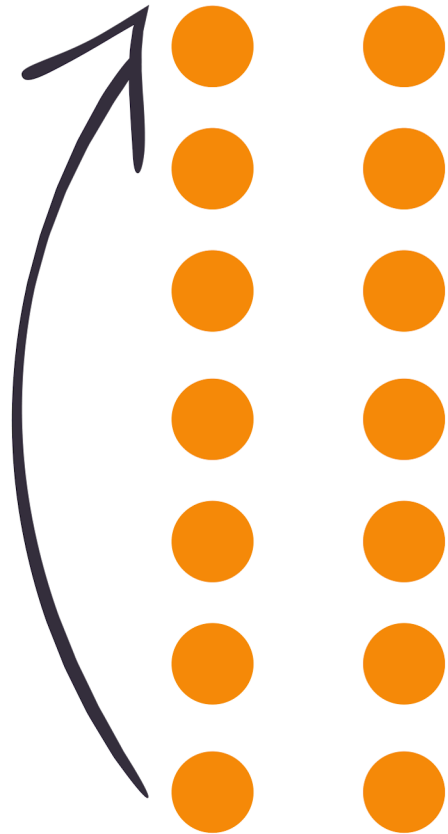
- identify some likes, dislikes, strengths, abilities and/or interests when showing a personal preference
- acknowledge that people have different needs, emotions and abilities

In addition, some students will be able to:

- describe the ways they are connected and can contribute to their community groups

Format

- Interactive game with 10 questions
- Easy to play
- Watch Skye's film with the class
- Print the questions
- Play the game
- Modify or include new questions based on students' needs



Scan this QR code to watch
my film.



Instructions for students

Line the class up in two lines facing each other to form pairs. Ask the first question. Once each pair has discussed it, get one line to move one person to their right. The person at the end runs around to the other end of the line. Then you ask the next question and repeat the process until all the questions have been asked.

Skye Food Scientist

Question 1

What do you think is interesting about Skye's career?

Question 2

What skills does Skye have that you also have, and does she have any skills you don't have that you would like to have?

Question 3

Why do you think it's important to find a career that suits your skills and personality?

Question 4

How are your current interests and hobbies similar to Skye's career?

Question 5

What kinds of tools or technologies do you think Skye would use on the job?

Question 6

How could this career be done in a rural or remote setting?

Question 7

How do you think Skye's career contributes to society?

Question 8

How important to Skye's work is teamwork with other researchers, farmers, or food companies? Think of an example.

Question 9

What types of bugs do you think might be edible, and how would you eat them?

Question 10

What do you think would be the biggest challenge in pursuing a career as an edible-bug expert?

Comprehension Questions

Australian Curriculum V9.0 links for Years 3 to 7

English
• Literacy

General Capabilities:
• Literacy

Learning outcomes:

All students will be able to:

- Identify that all people have strengths and weaknesses
- Actively think about what is happening in a video while they are watching it
- Apply comprehension strategies to different media formats

In addition, some students will be able to:

- Identify different reasons for doing different jobs

Instructions:

- Format/print the students' question sheets (or load them onto school LMS) and direct students to a copy.
- Read the questions as a class to start, discussing any meanings
- Discuss with the class strategies for being able to answer the questions as the film plays
- Watch Skye's film with the class, encouraging students to answer questions as you go

Adaptation note: Questions can be modified on the PDF to meet students' needs or learning focus areas in your classroom

Comprehension questions

1. Name FOUR things Skye can do.
2. And two things Skye CAN'T do.
3. What university degrees does Skye have?
4. Why did Skye get a Food Science degree?
5. Who is Skye known as?
6. What sort of food does Skye say her children and grandchildren will be eating?
7. Who help Skye embrace her passion, and how?
8. What does Skye do, day to day?

Scan this QR code to watch my film.



Answers:

1. Experiment, catch bugs, teach, develop new foods.
2. Rock climb, skate.
3. Entomology and Food Science.
4. Not a lot of jobs in entomology so she did a degree in Food Science so she would have a job when she finished university,
5. The Bug Girl or the Bug Lady
6. A more plant-based diet, more alternative proteins like insects, cellular based agriculture. Even algae and seaweed.
7. Her teachers with articles or books they thought would be interesting.
8. On the farm, robotics, AI, creating new food, teaching.

Comprehension Questions

Name **FOUR** things Skye can do.

- 1.
- 2.
- 3.
- 4.

Why did Skye get a Food Science degree?

Name **TWO** things Skye can't do.

- 1.
- 2.

What sort of food does Skye say her children and grandchildren will be eating?

What university degrees does Skye have?

- 1.
- 2.

Who help Skye embrace her passion, and how?

Who is Skye known as?

What does Skye do, day to day?

Entomologist/ Food Scientist

Skye is an entomologist and food scientist who is passionate about sustainable food processes. She educates people about the amazing health, nutritional and environmental benefits of using insect proteins as a source of food. Find out more:

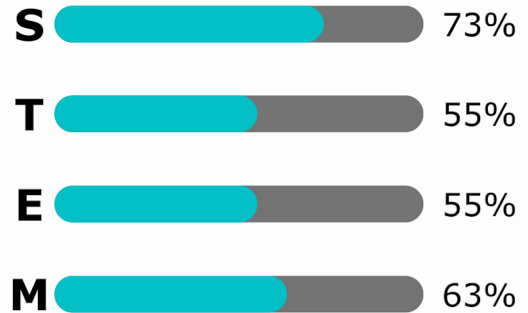
futureyouaustralia.com.au/pathfinders/skye



'I'm in a position where I can actually make a difference.'

STEM Meter

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



Source: jobsandskills.gov.au

Job stats and facts

Location: 34% of food scientists live outside capital cities.

Employment pathways: A bachelor degree in a relevant field, but there are many pathways you can take to get an undergraduate degree. Discover them at myfuture.edu.au

3 STEM skills required for this job	Subjects to develop these skills	3 other jobs that value this skill
Chemistry	Science	Biotechnologist, Forensic Scientist, Medicinal Chemist
Critical thinking	Science, Mathematics, Digital Technology	Analyst, Criminologist, Doctor
Data analysis	Science, Mathematics	Data Engineer, Marketing, Quantitative Analyst

Other careers related to this line of work

Nature

Beekeeper
Zookeeper
Naturalist
Environmental Engineer
Natural Resource Technician

Food

Food Consultant
Food Safety Officer
Food Toxicologist
Packaging Technologist

Health

Nutritionist
Public Health Official
Quality Assurance Manager
Pathology Associate

Education

Higher Education Lecturer
Museum Curator

Sustainability

Urban Farmer
Sustainability Consultant
Ecologist
Environmental Scientist

The world is changing rapidly, and this means the career possibilities available to our kids are wide-ranging and exciting (and probably don't exist yet!).

From traditional vocations to emerging fields, there are countless pathways to be explored.

Parents and teachers can create environments that encourage kids to discover and investigate possible careers that match their skills and interests.

We've included some links to other valuable resources that can help guide career conversations and explorations. Find out more at:

www.futureyouaustralia.com.au/resources/#other

Skye is

a Harvester

CAN'T

skate or rock climb

LOVES

teaching people about food sustainability

CAREER

Founded an edible bug shop

STUDIED

Bachelor of Food Science at university

EXPERT ON

more sustainable sources of nutritious food

WANTS TO

build a better future for her kids and grandkids

CAN

do experiments, catch bugs, and teach people

WORKS WITH

robotics, AI, farmers, bugs, technology

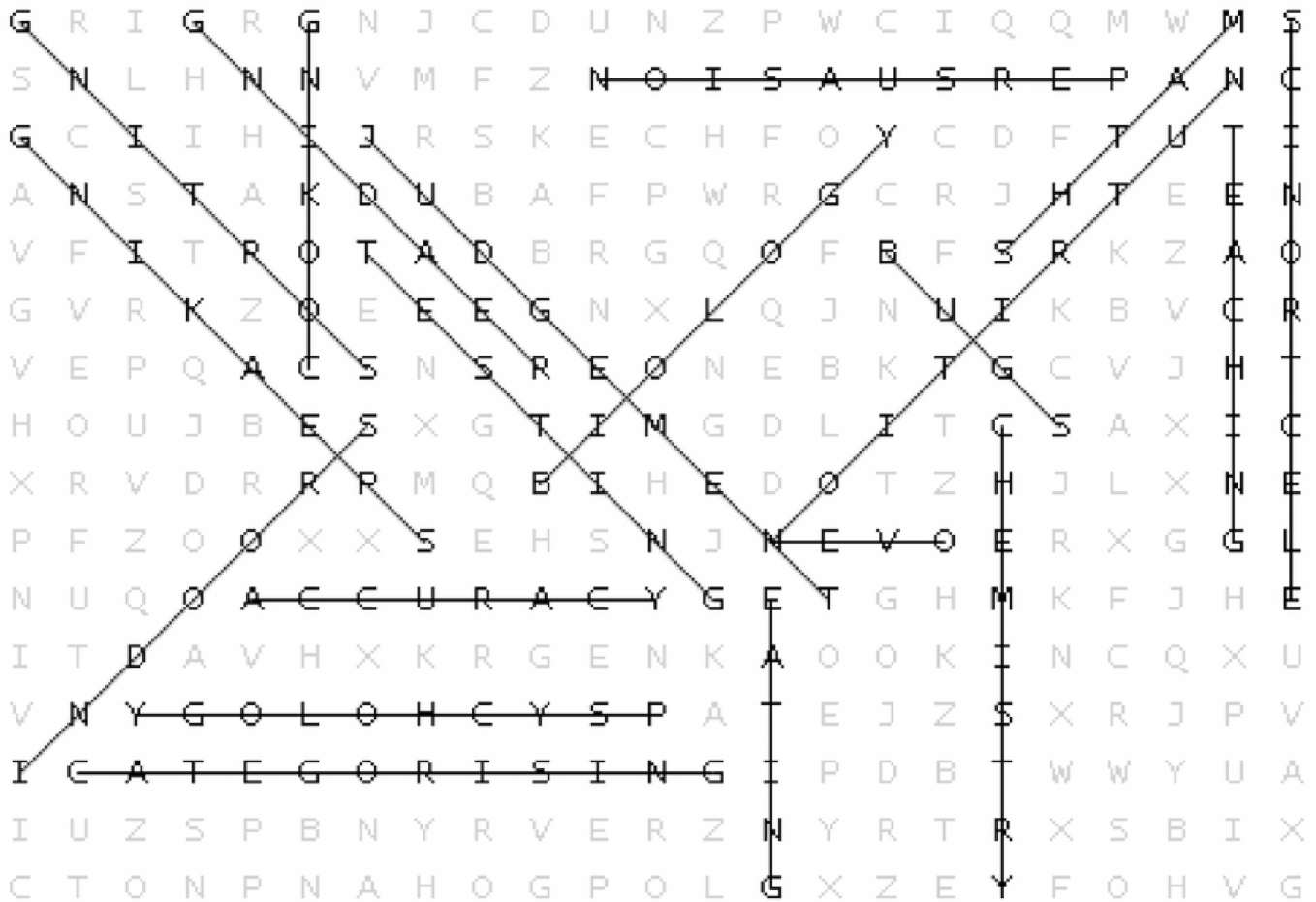


Meet Skye. She's a food scientist. Fill in the bubbles with 5 STEM (Science, Technology, Engineering and Mathematics) skills she uses in her job. Which of these skills do you think is most important? Which do you think would be the hardest to develop? When you've thought of the skills, colour in the rest of the image.



Pathfinder Workwords

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 Skye might need to do her job?

