

Welcome to Future You



Future You is a free program that gets kids aged 8 to 12 interested in STEM (Science, Technology, Engineering, and Mathematics) subjects and careers.

Future You addresses stereotypes, misconceptions and biases about science, technology, engineering and mathematics (STEM). It's 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

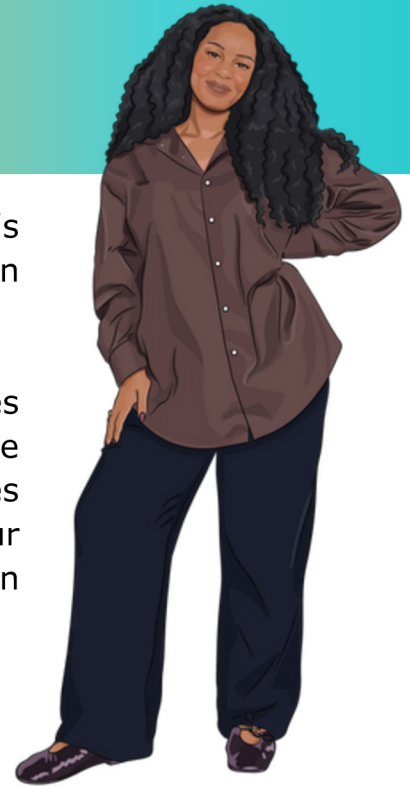
www.futureyouaustralia.com.au

FUTUREyou

What's in this pack

This pack includes activities that are all related to Kayta's film. Each Pathfinder has its own Teacher's Pack. You can find them on their individual pages.

Our Imagining the Future short-fiction series also includes fantastic resources you can use in the classroom. The Bloom's Taxonomy and Gardner's Multiple 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 Kayta'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 Kayta'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 Kayta's film. 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

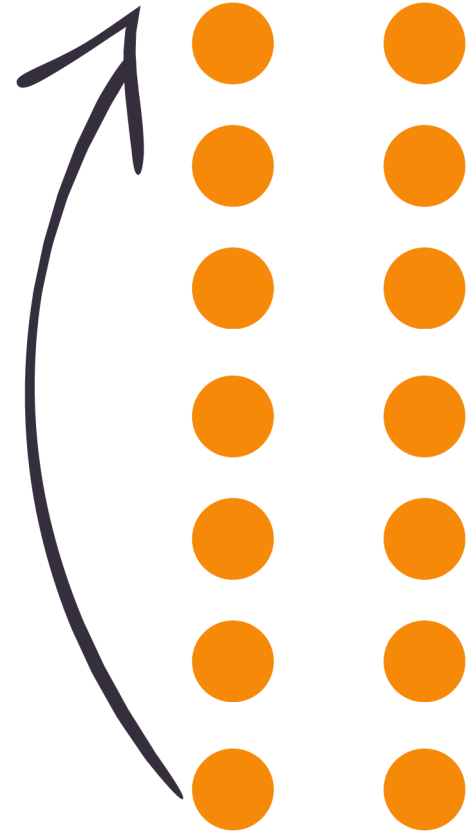
In addition, some students will be able to:

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

Format

- Interactive game with 10 questions
- Easy to play
- Watch Kayta'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.

Kayta

Software Engineer

Question 1

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

Question 6

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

Question 2

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

Question 7

Why is this career important in a rural or remote location?

Question 3

How does software engineering help build a better world?

Question 8

What kind of tools or technologies do you think Kayta uses in her work?

Question 4

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

Question 9

When would teamwork be important in Kayta's line of work? Can you think of an example of when you use teamwork?

Question 5

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

Question 10

What do you think would be challenging about changing jobs and why do you think that?

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 various texts as they read them
- 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 they learn about Kayta.
- Watch Kayta's film as a 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 two things Kayta is good at.
2. And two things Kayta can't do.
3. What career did Kayta used to have?
4. What inspired Kayta to make the change from marketing to software engineering?
5. What does Kayta say was the hardest part about changing careers?
6. Who does Kayta say she loves spending time with outside of work?
7. How does Kayta stay connected to her creative side?
8. What does Kayta say makes her a better engineer?
9. What impacts does Kayta want to have in her job?
10. What advice does Kayta have for people thinking about changing jobs?

Scan this QR code to visit my page



Comprehension Questions

Name two things Kayta is good at.

1.

2.

What inspired Kayta to make the change from marketing to software engineering?

Name two things Kayta can't do.

1.

2.

What does Kayta say was the hardest part about changing careers?

What career did Kayta used to have?

How does Kayta stay connected to her creative side?

Who does Kayta say she loves spending time with outside of work?

What does Kayta say makes her a better engineer?

What advice does Kayta have for people thinking about changing jobs?

What impacts does Kayta want to have in her job?

Comprehension Questions -Answer key

1. Name two things Kayta is good at:

1. Cooking up a really good meal.
2. Devouring a book in just a couple of days.

2. And two things Kayta can't do:

1. Keep a plant alive.
2. Do sums without a calculator.

3. What career did Kayta used to have?

A career in marketing.

4. What inspired Kayta to make the change from marketing to software engineering?

Her curiosity about how technical things work.

5. What does Kayta say was the hardest part about changing careers?

Starting from the bottom again.

6. Who does Kayta say she loves spending time with outside of work?

Her husband and her nephew.

7. How does Kayta stay connected to her creative side?

Through art, drawing, watercolours, gardening, music, and cooking

8. What does Kayta say makes her a better engineer?

Taking breaks and doing creative things outside of work.

9. What impacts does Kayta want to have in her job?

She wants to build cool things and champion more women into tech.

10. What advice does Kayta have for people thinking about changing jobs?

"Just do it."

Did you enjoy this free activity? We have lots more related to different STEM careers.
Explore them all at: www.futureyouaustralia.com.au/pathfinders

Software Engineer

Kayta is a software engineer who keeps people up to date with what's happening in the world. Kayta used to work in marketing, but become more interested in the technical side of her job, which inspired her to change her career pathway.

futureyouaustralia.com.au/pathfinders/kayta

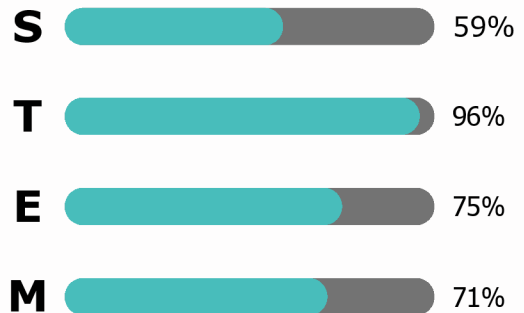


"My curiosity about how things work led me from marketing into software engineering."



STEM Meter

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



Source: jobsandskills.gov.au

Job stats and facts

Location: It's estimated 9-16% of software engineers live outside capital cities.

Employment pathways:

A bachelor or postgraduate degree in a related field or a vocational education and training (VET) qualification.

3 STEM skills required for this job

Programming

Evaluation

Communication

Subjects to develop these skills

Digital Technologies, Mathematics

English, HASS, Science, Technologies, The Arts

English, Digital Technologies, HASS, Mathematics, Science, The Arts

3 other jobs that value this skill

Web Developer, App Creator, Game Designer

UX Designer, Program Manager, Business Analyst

Social Worker, Radio Host, Financial Advisor

Other careers related to this line of work

People

Developer Relations
Developer Marketing
Sales Engineer
Technical Recruiter



Product

Quality Assurance
Test Engineer
Business Analyst
Program Manager



Support

DevOps Engineer
Database Administrator
Site Reliability Engineer



Teaching

Technical Writer
Trainer



Analytical

Data Scientist
Security Analyst
Research and Development

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

Kayta is an Amplifier

NOT GOOD AT

gardening or doing
sums in her head

CAREER

software engineer
at the ABC

EXPERT ON

building the tools and systems
that make sure people get the
news straight to their inbox

GOOD AT

cooking and reading
books

USED TO

be an expert marketer, but
is now on a new path

STUDIED

at software engineering
bootcamp to learn new skills

GOAL

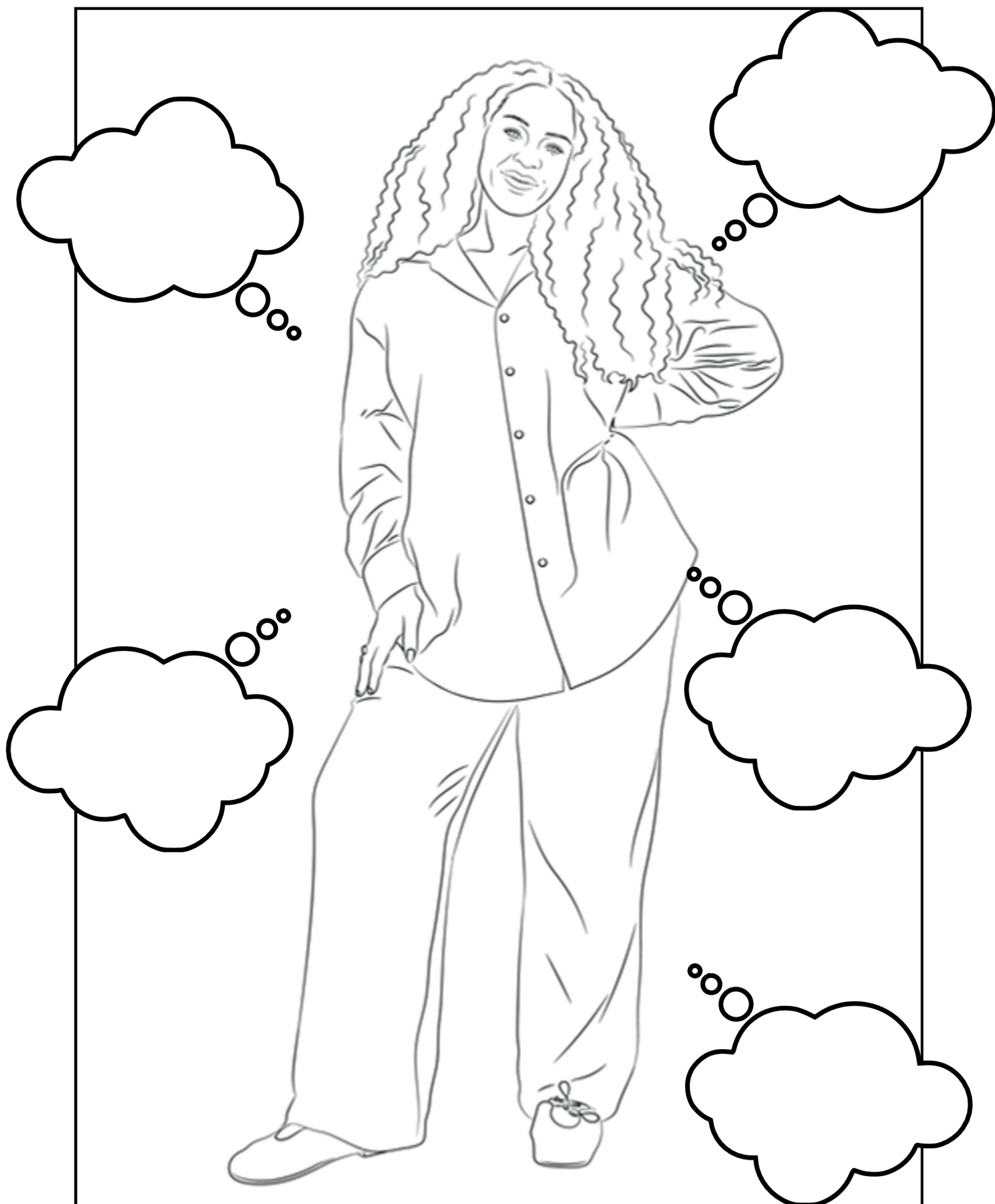
to build really cool
things and to represent
women in tech

ADVICE

stay true to who you are

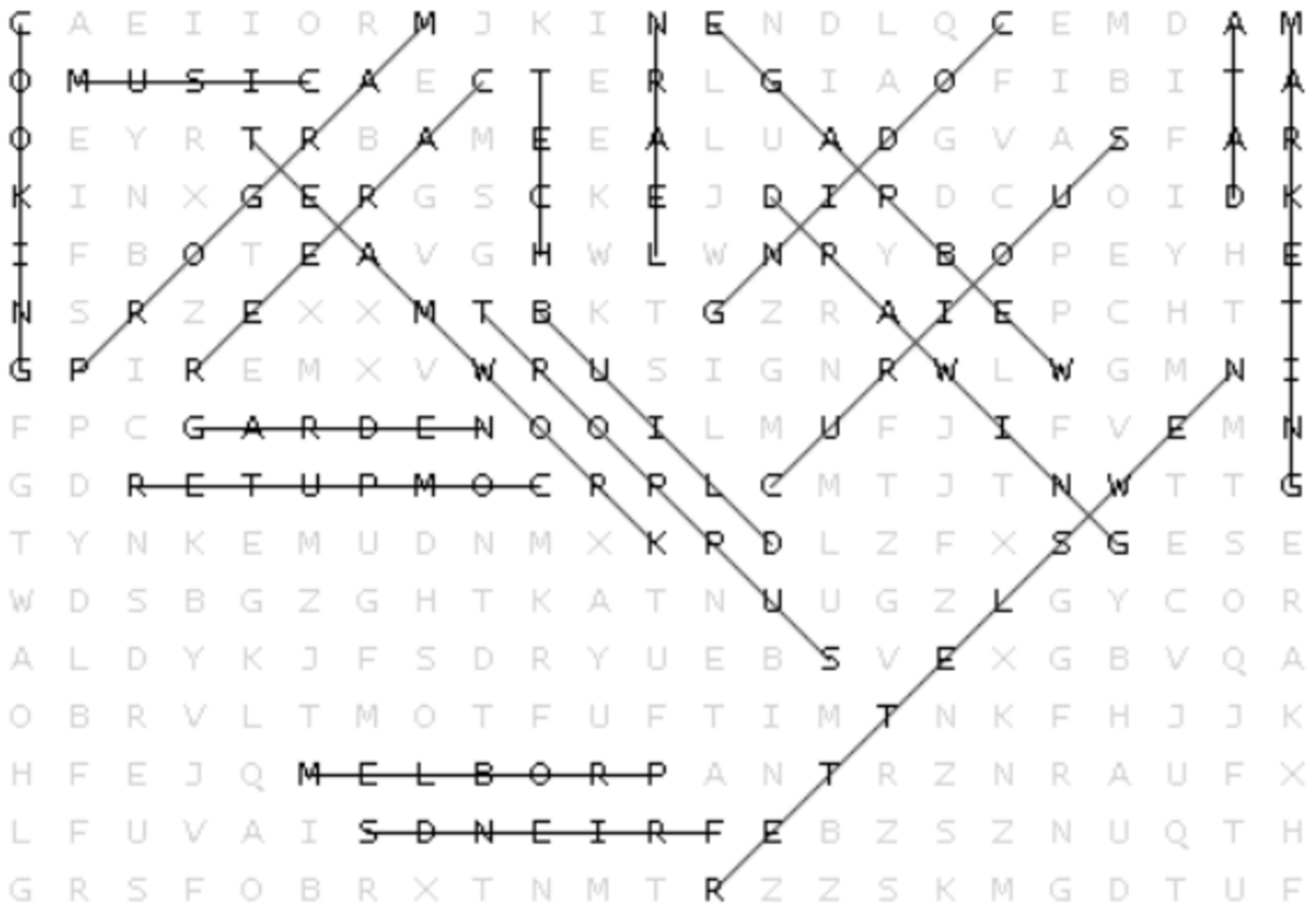


Meet Kayta. She's a software engineer who used to work in marketing. Fill in the bubbles with 5 STEM (Science, Technology, Engineering and Mathematics) skills she uses in her job. Which of these skills do you think is most important? Which do you think would be the hardest to develop? When you've thought 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 Kayta might need to do her job?

