

SKILLED TRADES & TECHNOLOGIES



CONSTRUCTION

PAGES 4-5

Build or repair structures such as buildings, roads and bridges.

FUN FACT

The Burj Khalifa is the world's tallest building. More than 12,000 people a day worked on it during construction.

MANUFACTURING

PAGES 6-7

The making of goods on a large scale by specialized machinery.

FUN FACT

LEGO bricks are so precisely manufactured that 36 bricks can be combined in 915,103,765 ways.

MECHANICAL/ELECTRICAL

PAGES 8-9

Install, maintain and repair the foundational components of buildings.

FUN FACT

The oldest known plumbing was found in Pakistan and India, dating from 3,500 BC.

SERVICE

PAGES 10-11

Provide a helpful activity.

RESTAURANT

FUN FACT

In 2001, a pizza was delivered to the International Space Station via a resupply rocket. It was eaten by Russian astronaut Uri Usachov.



TRANSPORTATION

Maintain and repair all types of vehicles.

PAGES 12-13

FUN FACT

The Trans-Canada Highway, which runs 7,821 km from St. John's to Victoria, is one of the world's longest highways.



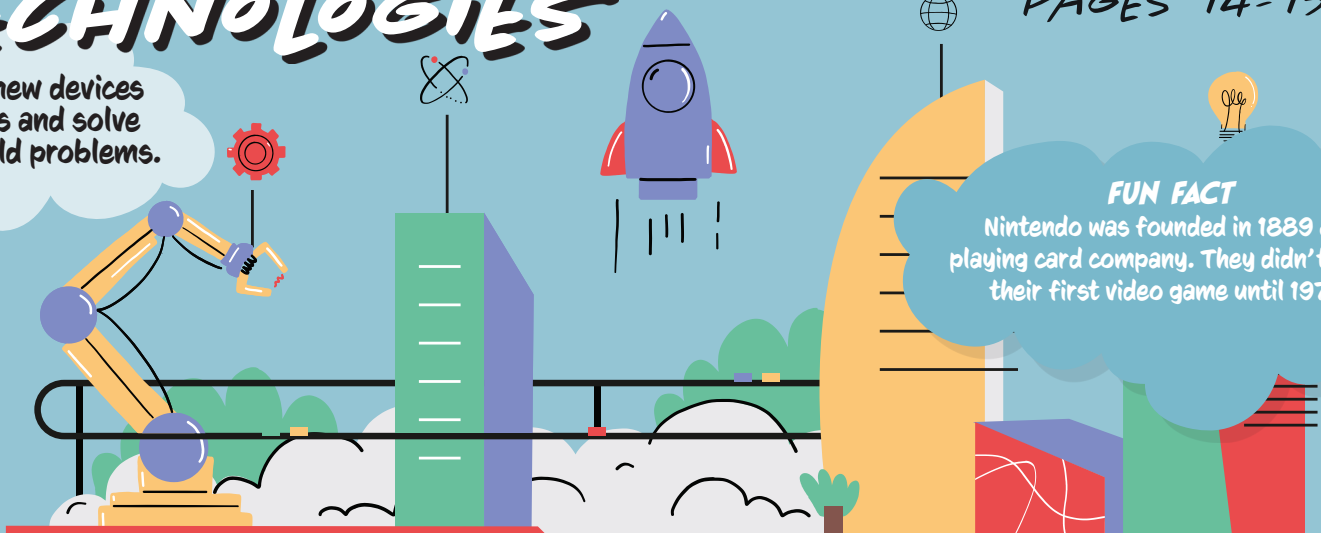
TECHNOLOGIES

PAGES 14-15

Invent new devices or tools and solve real-world problems.

FUN FACT

Nintendo was founded in 1889 as a playing card company. They didn't make their first video game until 1978.



CONSTRUCTION

WHAT DO WE RELY ON TRADESPEOPLE
FOR IN CONSTRUCTION?

Make and install:

- windows
- flooring
- roofs
- and other parts that make up buildings, roads and bridges



GLAZIER

Handle, cut, install and remove windows and other glass materials.



CARPENTER

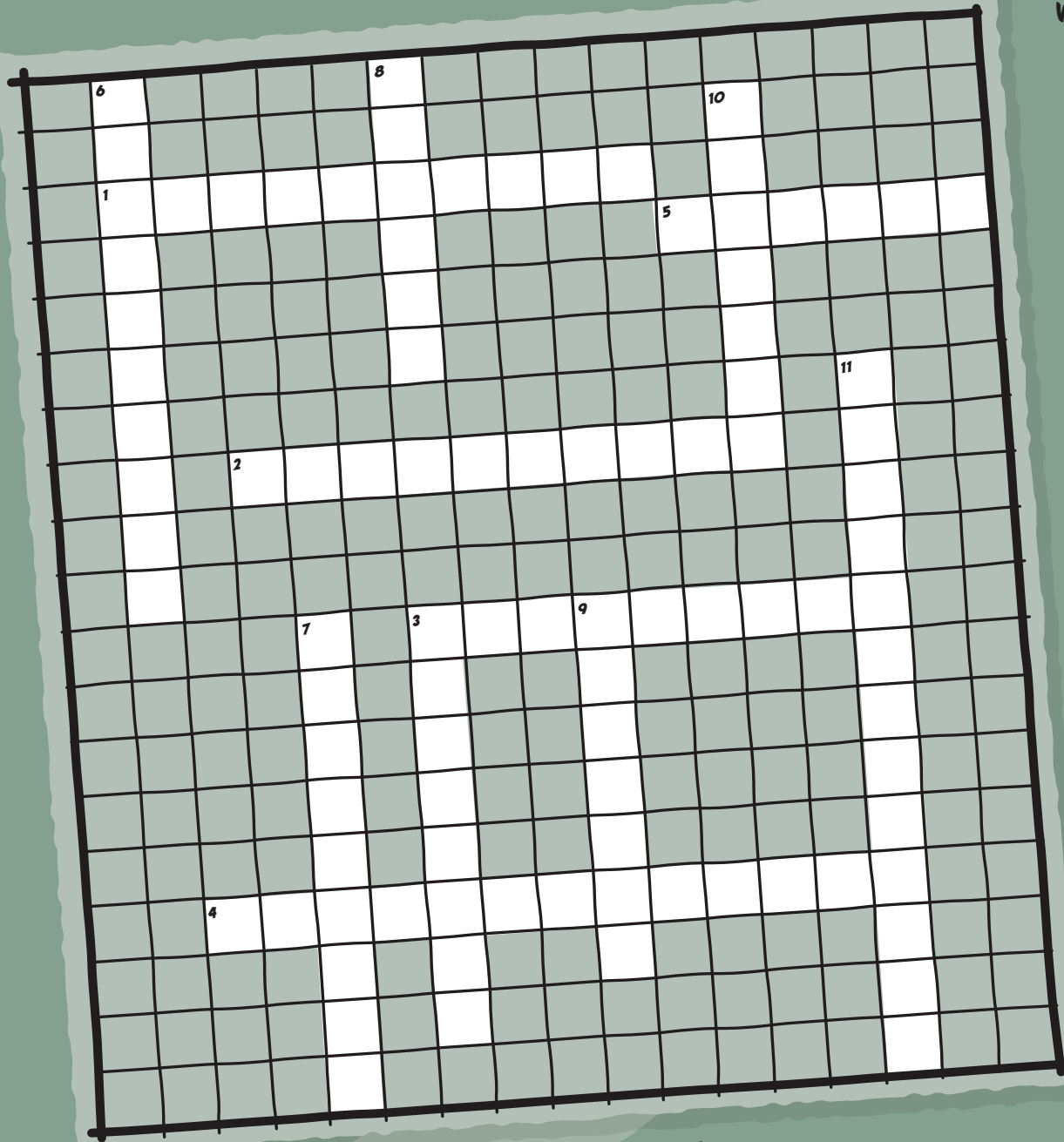
Build and repair whole and parts of buildings and other structures.



BRICKLAYER

Using stone, bricks, or concrete blocks, these tradespeople build interior and exterior walls and paths.

CROSSWORD



WORD BANK:

bricklayer
 flooring
 carpenter
 horticulture
 landscaper
 glazier
 concrete finisher
 hydro
 painter
 mason
 drywall
 ironworker
 windows
 tiles
 sloped roofer
 blacksmith
 crane operator
 roofer
 floorcovering
 concrete
 lather
 paint brush
 decorator
 insulator
 boom truck

ACROSS

1. Builds the framework of steel bridges and skyscrapers
2. Design, install and maintain gardens, parks and green spaces.
3. Make or repair wooden structures and objects
4. Operates machinery to move other large objects and equipment
5. Install support frameworks for ceilings, walls and building partitions.

DOWN

3. A _____ finisher, works with different types of this material to make sidewalks, roads or floors.
6. Builds chimneys, fireplaces, patios, walls or walkways
7. Apply material to prevent or reduce the passage of heat and cold
8. Install and repair flat roofs
9. Apply paint
10. Place glass into buildings and furniture
11. _____ installers - install, repair and remove carpets, hardwood and other flooring.

MANUFACTURING

WHAT DO WE RELY ON TRADESPEOPLE
FOR IN MANUFACTURING?

- Assemble household appliances
- Create parts for vehicles
- Create and assemble many everyday items

WELDER

Form, bend and join metals using a variety of welding equipment.



CABINETMAKER

A person who produces furniture, cabinetry and millwork from manufactured materials.



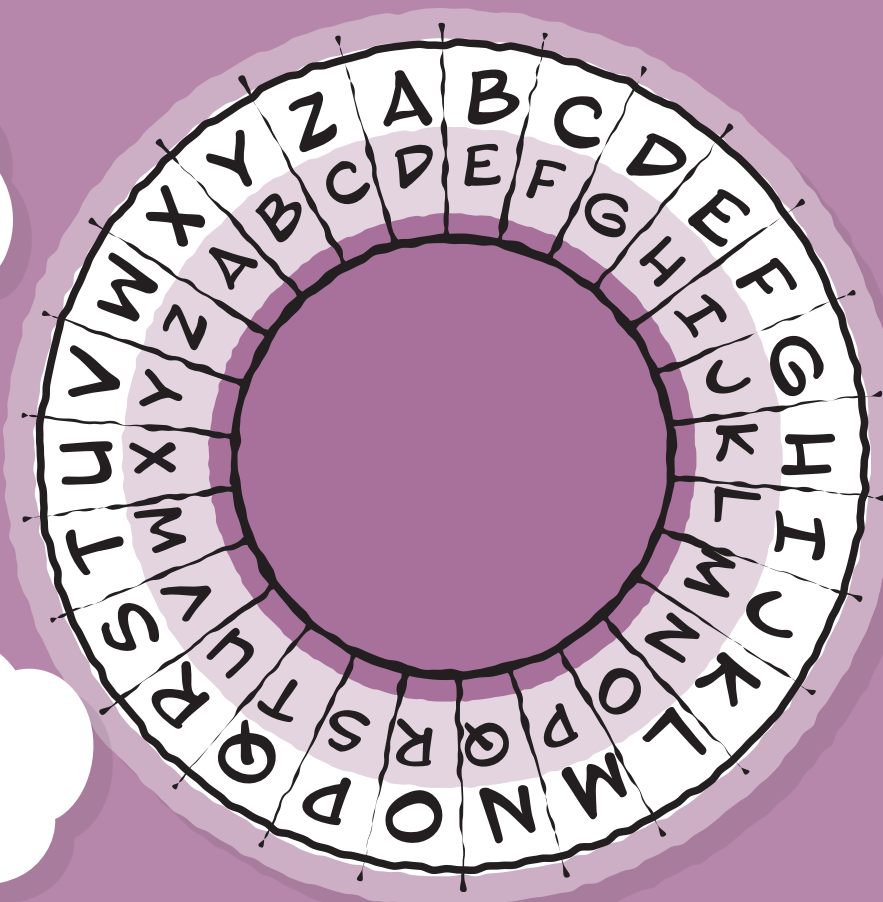
MACHINIST

Set up and operate a variety of machine tools to cut, grind and drill metal into parts or products.



CIPHER

JUST A FEW OF THE MANY
MANUFACTURING JOBS!



FDELQHWPDNHU

ERLOHUPDNHU

LQVWUXPHQWDWLRQ DQG
FRQWURO WHFKQLFLDQ

ZHOGHU

WRRO DQG GLH PDNHU

ZDWHU DQG ZDVWHZDWHU
WHFKQLFLDQ

FQF PDFKLQLVW

SRUN SURGXFWLRQ
WHFKQLFLDQ

PDFKLQLVW

MECHANICAL / ELECTRICAL

WHAT DO WE RELY ON TRADESPEOPLE FOR IN MECHANICAL/ELECTRICAL?

- Provide air conditioning, heat, and running water
- Provide power to buildings

CONSTRUCTION ELECTRICIAN

Install, repair and maintain electrical fixtures that provide heat, light and power.



PLUMBER

Install, maintain and repair plumbing systems.



POWER ELECTRICIAN

Install, maintain and repair electrical equipment.



SUDOKU

Help the power electrician fill in the grid by using the numbers 1-9. Each number must appear only once in each row, column, and block.

7			1	5	8	4	2	
4	2		9	6	3			
	5			2	4	1	6	
6				8			3	
3		5			2	7	1	
1	8	2	3			5		6
		7	8	3			4	
			2		5		8	1
	3	8	4	1	9		5	7

SERVICE

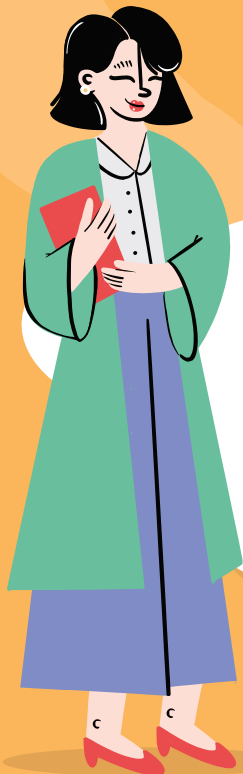
WHAT DO WE RELY ON TRADESPEOPLE
FOR IN SERVICE?

- Cut and style hair
- Cook a wide variety of foods
- Offer services in skin and nail care



COOK

Prepares and cooks, plans meals, orders and prices a wide variety of food.



ESTHETICIAN

Focus on nail and skin care: pedicures, manicures, facials, lashes/brows.

HAIRSTYLIST

Cuts, colours, styles and chemically treats hair.



LOGIC PUZZLE

Uh oh! There's been a mix up with some of the records at The Skills Tool Shop! Can you help us solve the issue? We remember some of the information for each order, but need your help to piece all of our orders together...

	Curt	Meg	Rico	Kat	Cape	Comb	Spatula	Whisk	Cook	Esthetician	Baker	Hairstylist
Order 10												
Order 21												
Order 4												
Order 7												
Cook												
Esthetician												
Baker												
Hairstylist												
Cape												
Comb												
Spatula												
Whisk												

1. Kat and Meg's order numbers are higher than 9.

2. The Cape & Spatulas order numbers are even.

3. Meg is a Cook who ordered the Spatula, with an order number of 10.

4. Rico, the Baker was the second to place an order.

5. The Esthetician ordered a Comb.

6. The Hairstylist ordered the Cape and placed their order first.

Order #	Tradesperson	Job Title	Tool
10			
21			
4			
7			

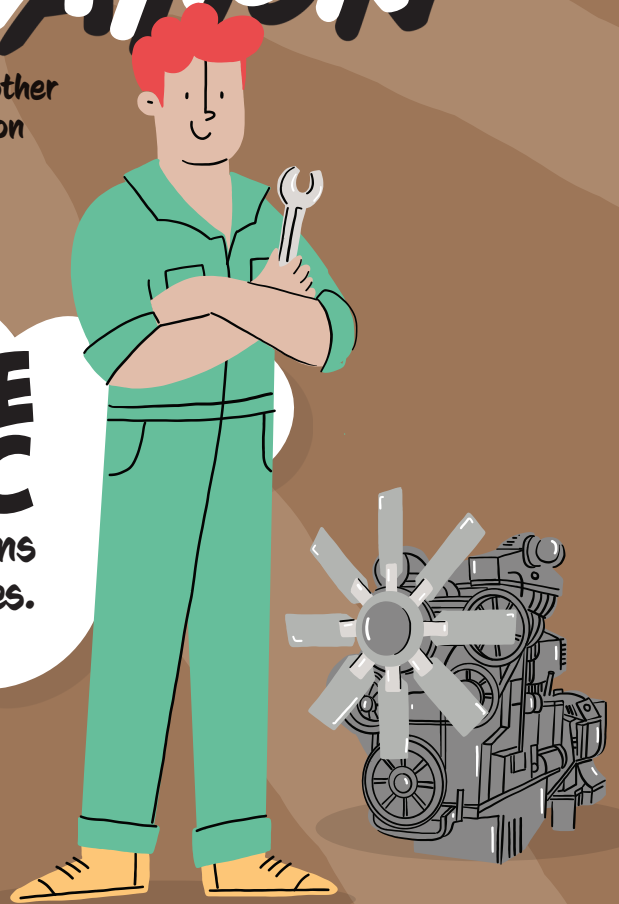
TRANSPORTATION

WHAT DO WE RELY ON
TRADESPEOPLE FOR IN
TRANSPORTATION?

- Help us travel from one place to another
- Carry goods from location to location
- Help maintain and repair vehicles we use all the time

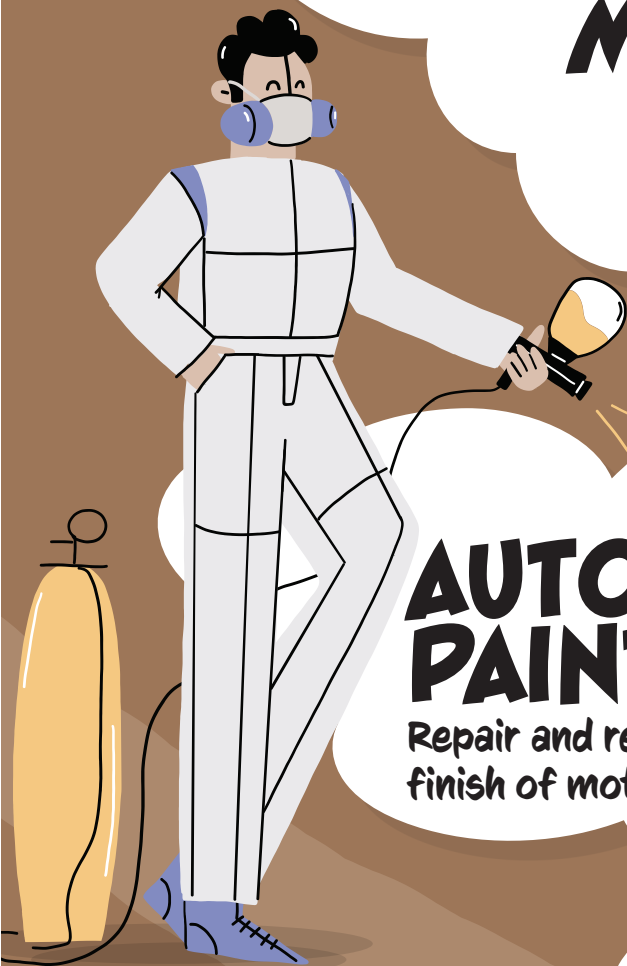
DIESEL ENGINE MECHANIC

Repairs and maintains diesel engines.



AUTOMOTIVE PAINTER

Repair and restore the exterior finish of motor vehicles.



AUTOMOTIVE SERVICE TECHNICIAN

Diagnose and repair cars, vans, trucks and transformers.



MATH LOGIC

$$\text{car} + \text{car} + \text{car} + \text{car} = 16$$

$$\text{car} + \text{car} - \text{plane} = 3$$

$$\text{plane} + \text{plane} \times \text{truck} = 40$$

$$\text{car} + \text{plane} + \text{plane} \times \text{truck} = ?$$

$$\text{car} =$$

$$\text{plane} =$$

$$\text{truck} =$$

$$? =$$

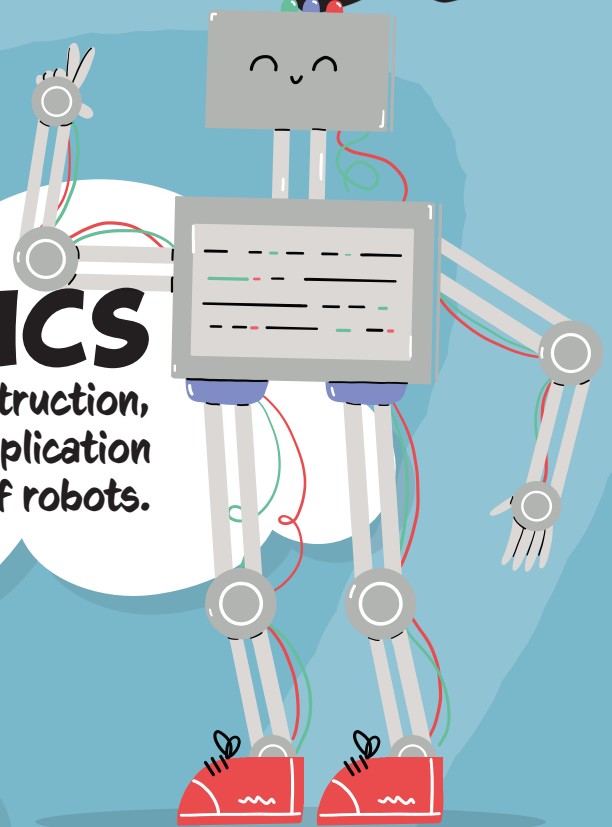
TECHNOLOGIES

WHAT DO WE RELY ON PEOPLE WHO
WORK IN TECHNOLOGY FOR?

- Research and develop new systems and software
- Interpret data to design and create useful tools and products

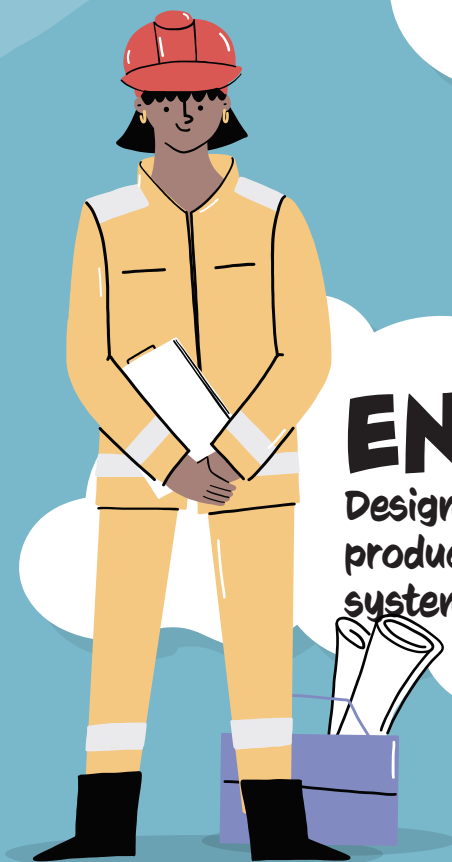
ROBOTICS

The design, construction,
operation, and application
of robots.



ENGINEER

Design and build complex
products such as machines,
systems, or structures.

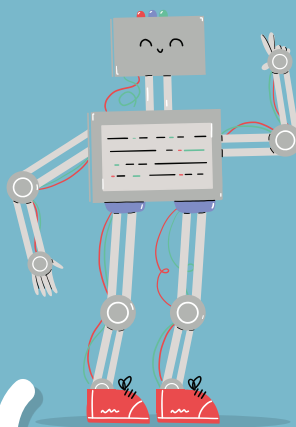


TV/VIDEO PRODUCTION

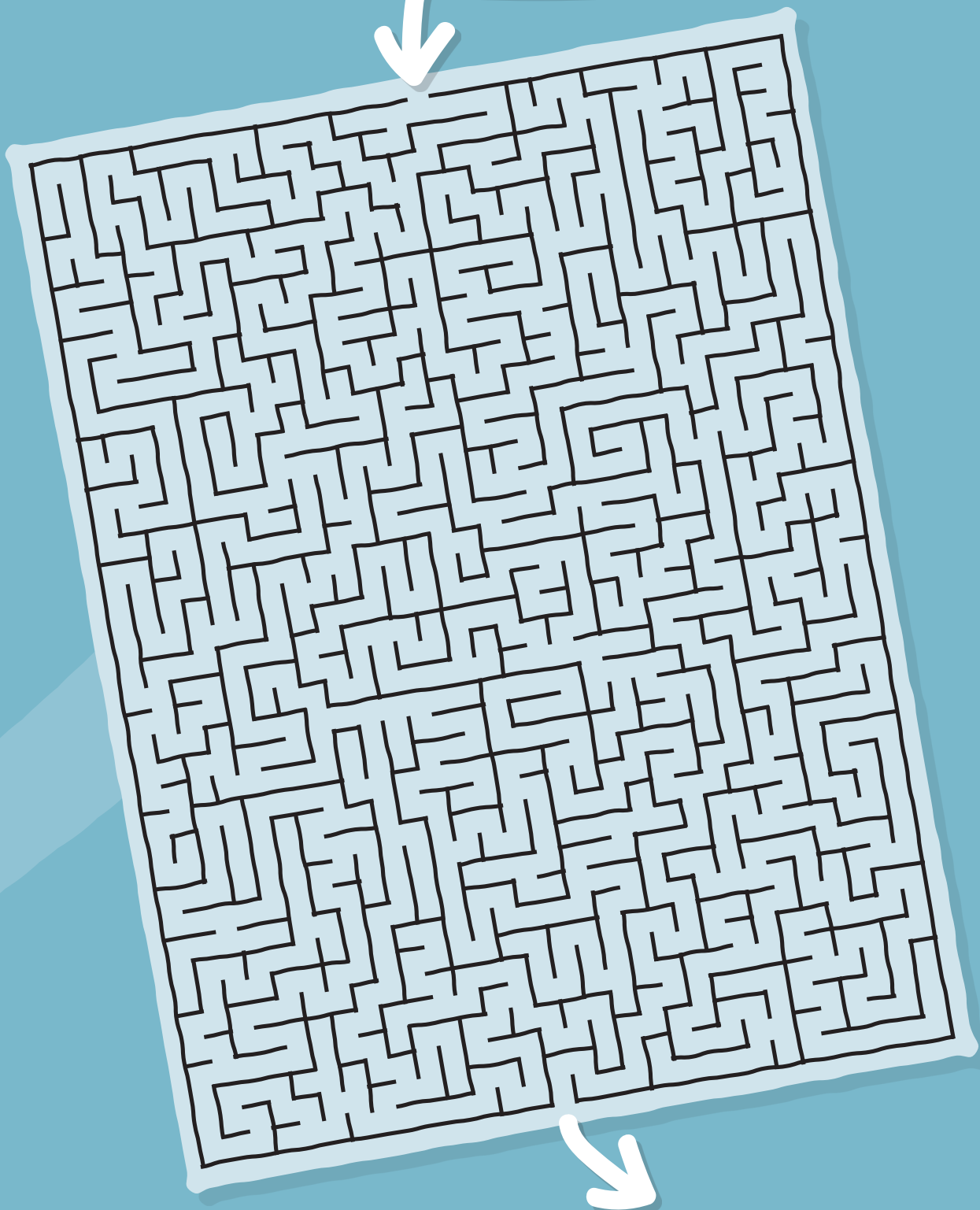
Production, writing, filming/capturing
moving images, and editing.



MAZE



HELP THE
ROBOT GET
TO THE OTHER
SIDE



9+1 SKILLS FOR SUCCESS



GET THE APP!



ADAPTABILITY

We use adaptability to achieve our goals when expected or unexpected change occurs, by planning, staying focused, and overcoming obstacles.

Why this skill is important

Things don't always go according to plan, so it's important for us to be flexible and adaptable to succeed when things change in our lives.



CREATIVITY & INNOVATION

Your ability to imagine, develop, and encourage ideas in ways that are new.

Why this skill is important

Creativity and innovation skills help you come up with new, unique, or "outside the box" ideas or to approach something differently than in the past, both at school and outside school.



READING

Your ability to find, understand, and use information presented through words, symbols, and images.

Why this skill is important

Reading helps you to understand and interpret the meaning within the text.



DIGITAL

Your ability to use digital technology and tools to find, create and share information and content.

Why this skill is important

Digital technology has changed the way you find and share information, solve problems, and communicate with others.



COLLABORATION

Collaboration allows us to work in a team or group to reach a common goal.

Why this skill is important

Strong collaboration skills help you build and maintain positive relationships with others, in school, at work and in other parts of your life.

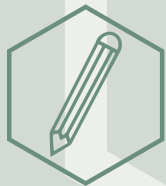


NUMERACY

Your ability to find, understand, use, and report mathematical information presented through words, numbers, symbols, and graphics.

Why this skill is important

Numeracy skills are needed in a wide variety of daily contexts, including managing your finances and making purchases.



WRITING

Your ability to share information using written words, symbols, and images.

Why this skill is important

We write to communicate ideas and information to other people.



PROBLEM SOLVING

Your ability to identify, propose solutions, and make decisions.

Why this skill is important

Strong problem-solving skills will help you gather the right information, identify, and solve problems, and make better decisions.



COMMUNICATION

The act of giving, receiving, and sharing information – in other words, talking or writing, and listening or reading.

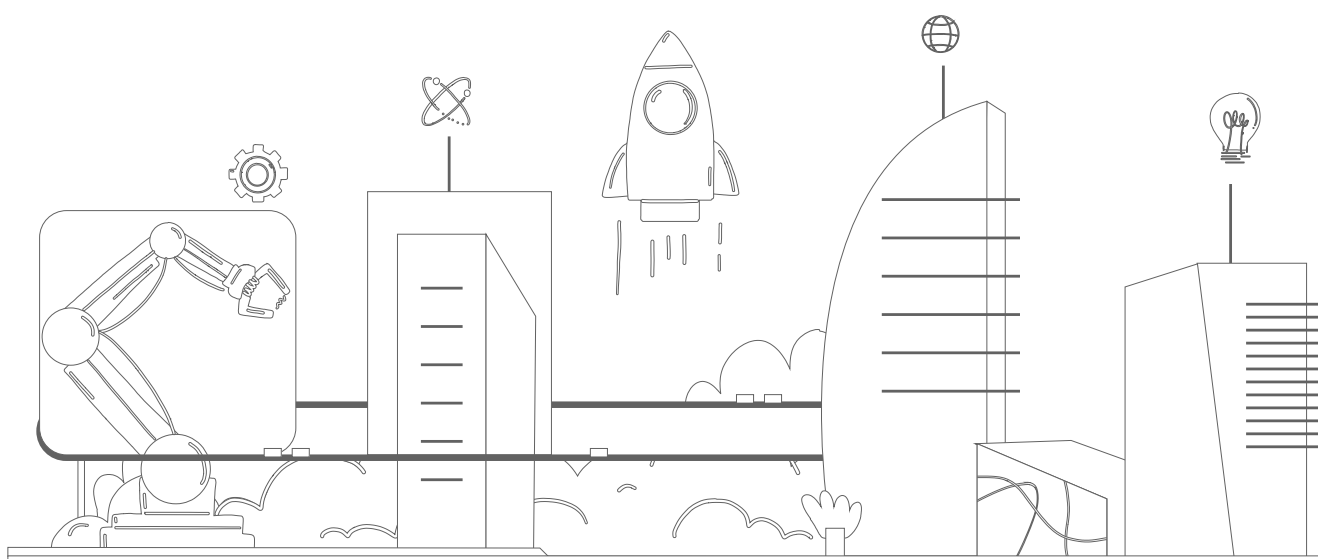
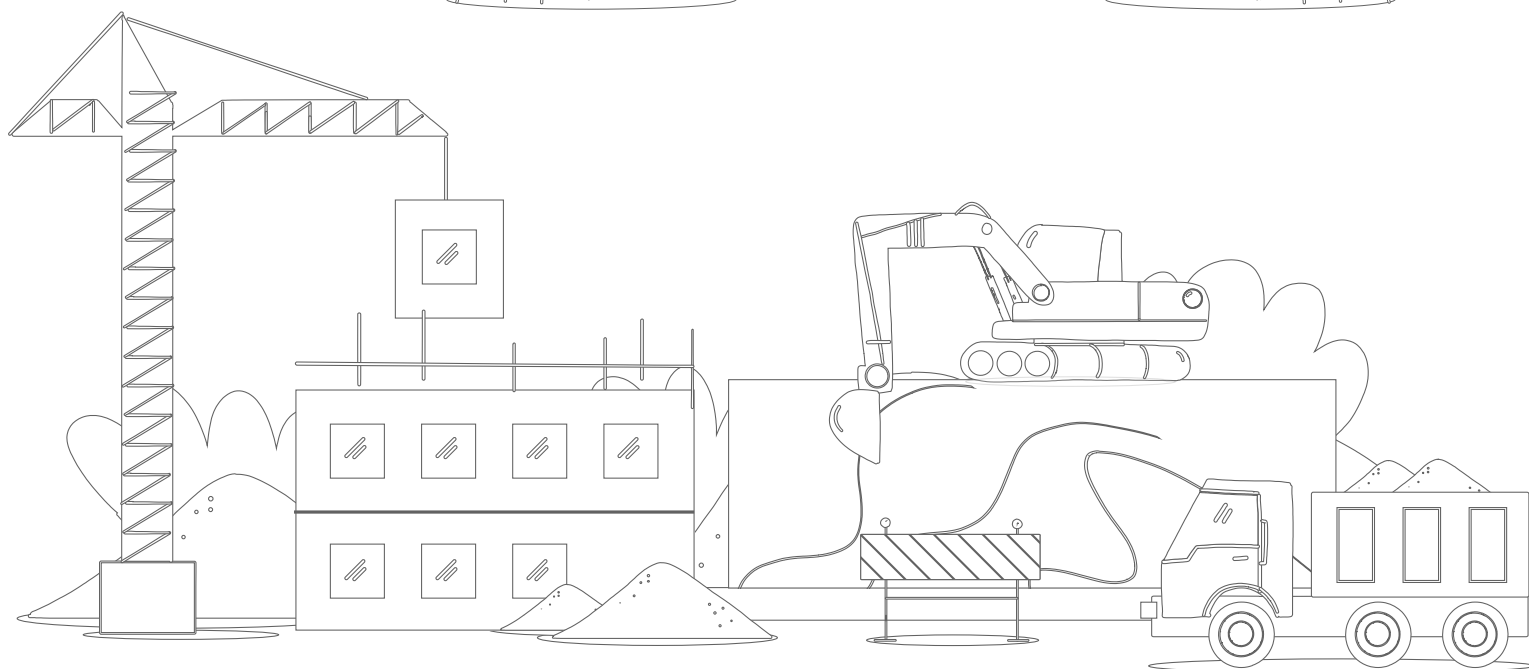
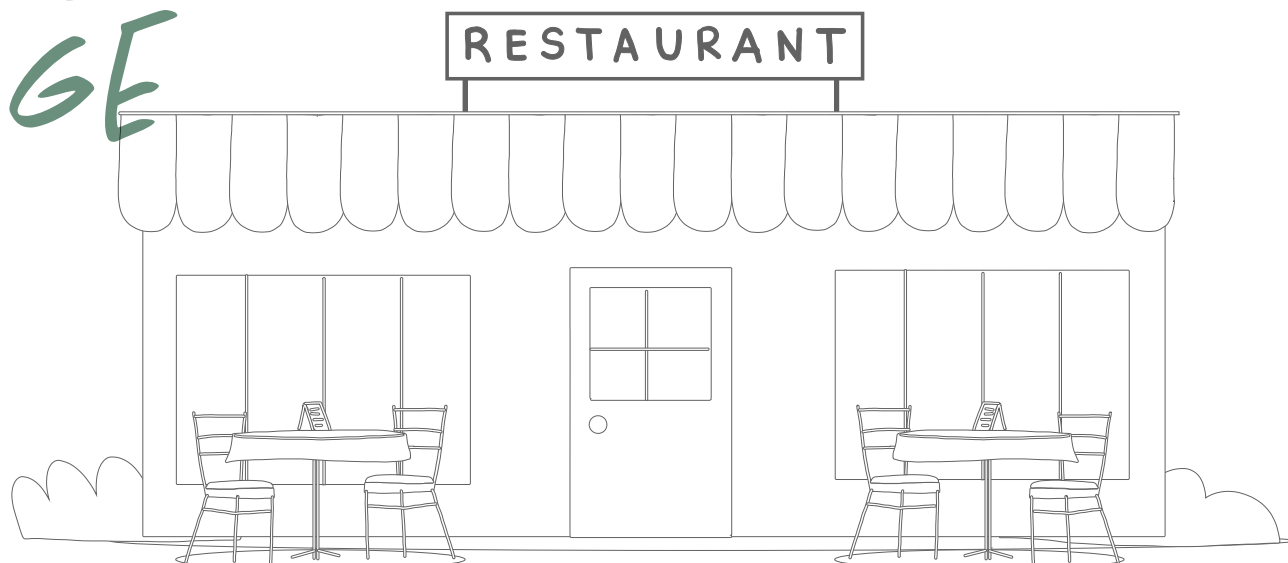
Why this skill is important

Strong communication skills help you share information in a way that others can clearly understand.

WHAT IS +1

The +1 represents the Technical Skills necessary for skilled trade and technology careers. Technical Skills relate to expertise someone possesses that assist in the completion of a job or task. In general, these are abilities acquired through practice and learning.

COLOURING PAGE



PARTNERSHIPS & SPONSORS

Funding Partners

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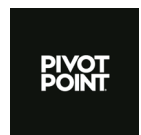
Northern People for Northern Jobs
Funding Provided by:
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Gold Partners



Bronze Partners



Contributing Partners

Bunge

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Manitoba Pork

Sheet Metal Workers International Local 511

United Steel Workers Local 6166

Women and Gender Equity Manitoba

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OUR MISSION:

To attract young Manitobans to careers in skilled trades and technologies.

OUR VISION:

Skills Canada Manitoba will be a leader and vital partner in meeting Manitoba's skilled workforce needs.



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Activity Book 2026/2027