

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.



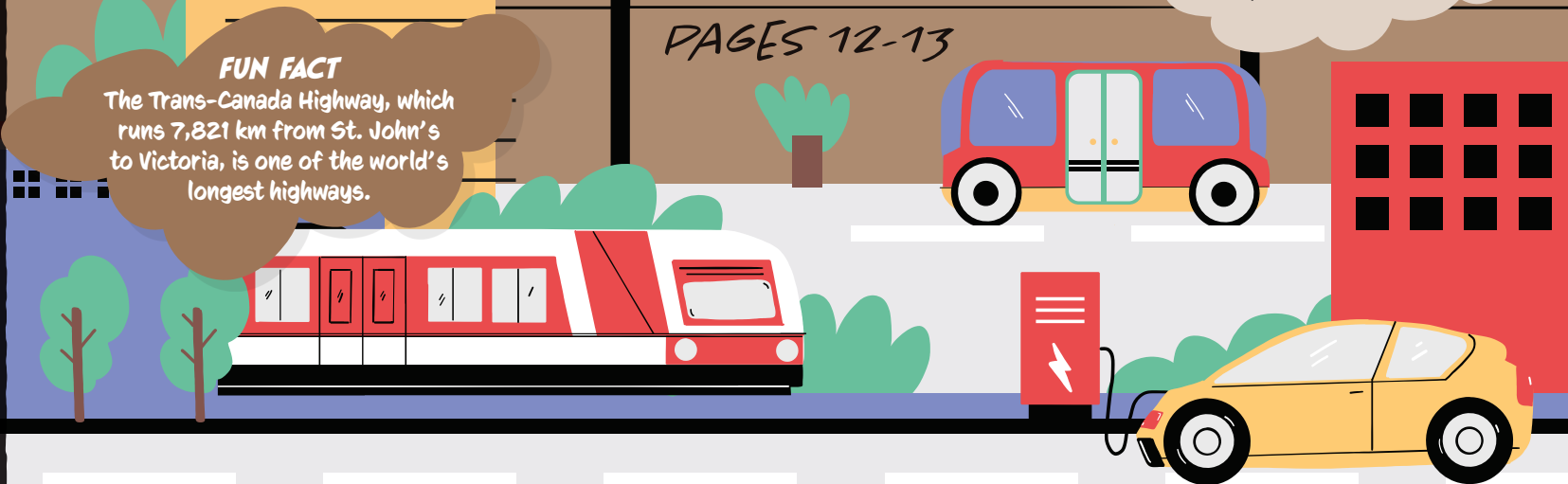
TRANSPORTATION

Maintain and repair all types of vehicles.

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.

PAGES 12-13



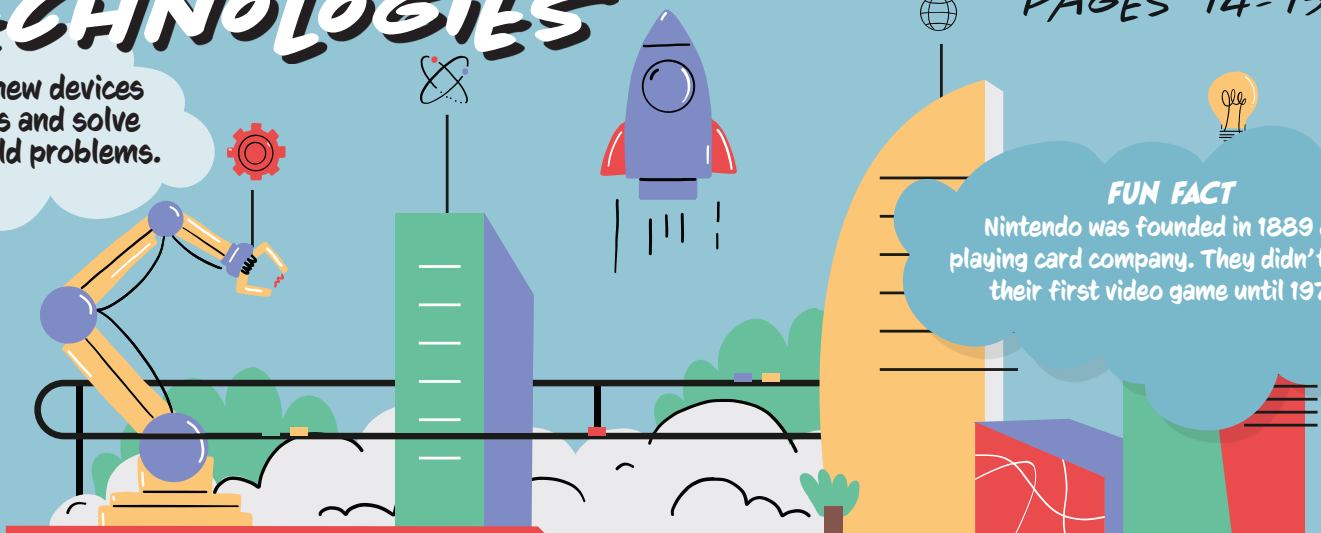
TECHNOLOGIES

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.

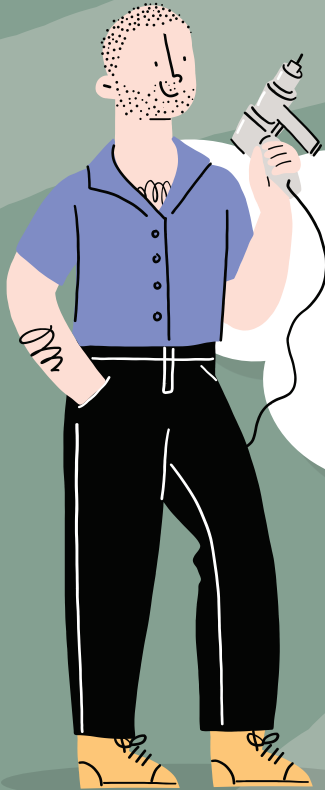


CONSTRUCTION

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



LATHER

Install support frameworks for ceilings, walls and building partitions.



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.

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	Hammer	Nails	Gloves	Putty Knife	Glazier	Carpenter	Bricklayer	Concrete Finisher
July 12												
July 27												
Aug 2												
Sept 5												
Glazier												
Carpenter												
Bricklayer												
Concrete Finisher												
Hammer												
Finishing Nails												
Gloves												
Putty Knife												

1. Kat and Meg ordered in July.
2. The Hammer & Gloves were ordered on an even day.
3. Meg is a Glazier who ordered Gloves on July 12th.
4. Rico, the Bricklayer was the last to place an order.
5. The Carpenter ordered Finishing Nails.
6. The Concrete Finisher ordered the Hammer on Aug 2.

	Tradesperson	Job Title	Tool
July 12			
July 27			
Aug 2			
Sept 5			

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.



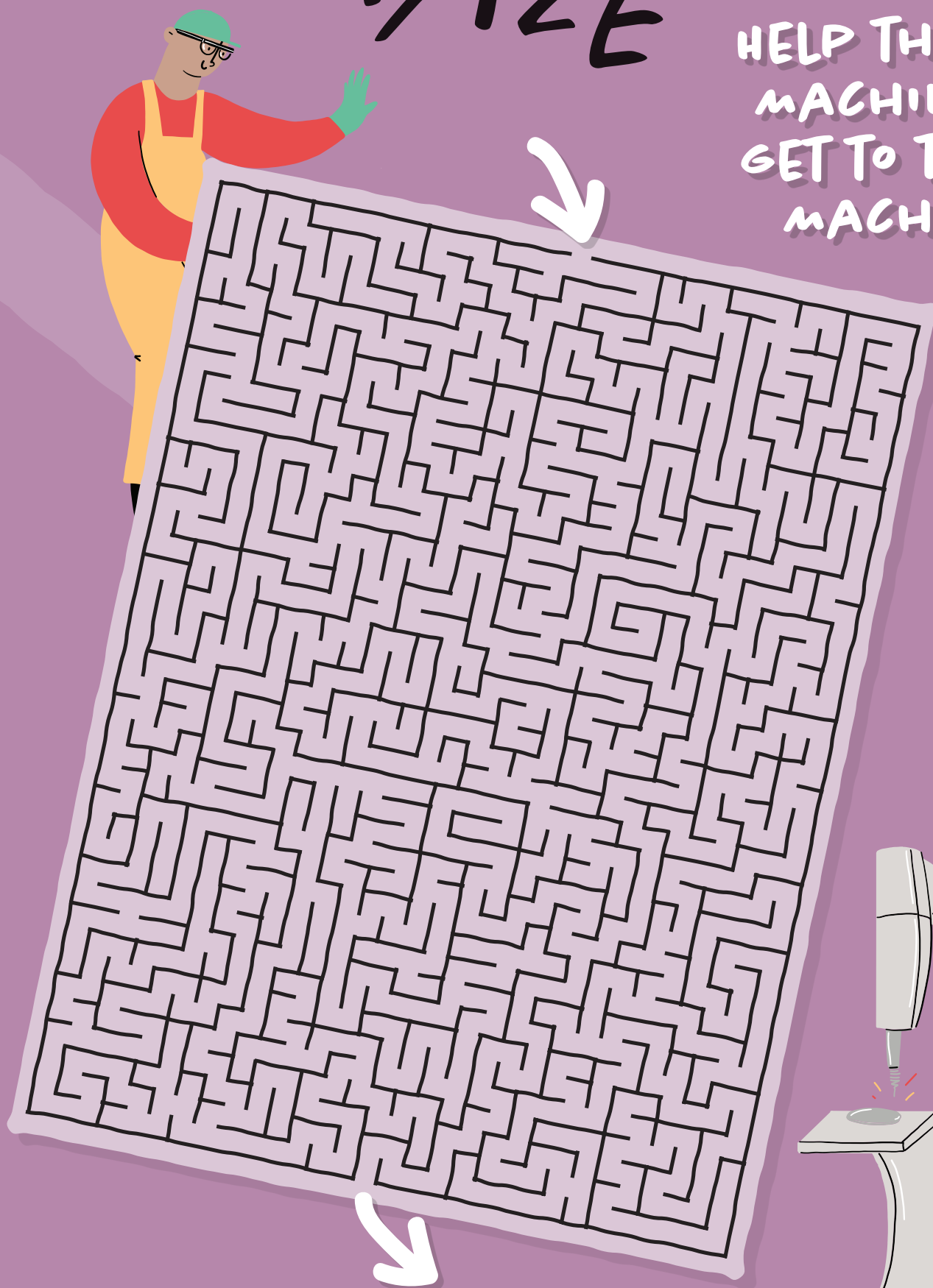
MACHINIST

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



MAZE

HELP THE CNC
MACHINIST
GET TO THEIR
MACHINE



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.

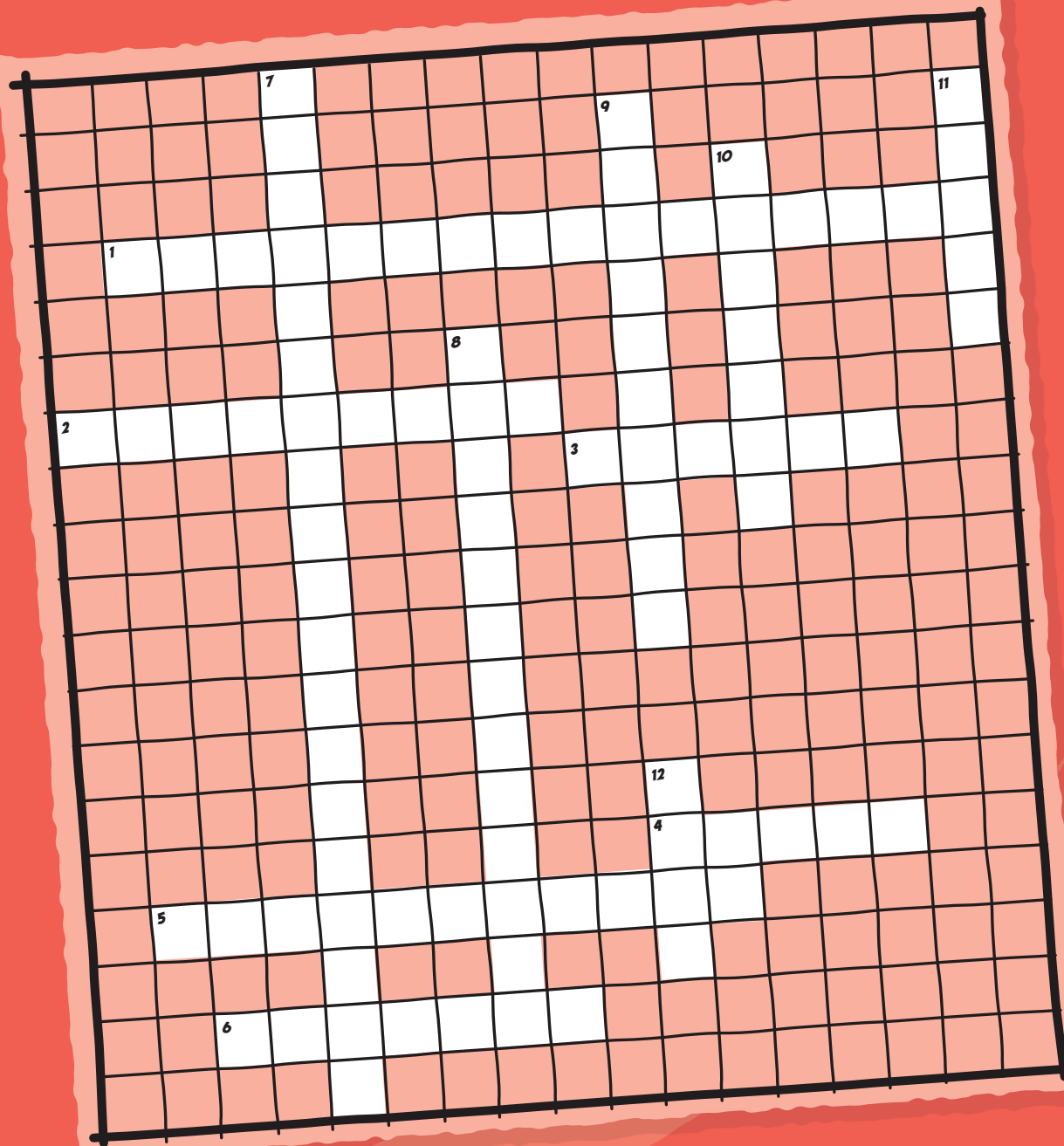


POWER ELECTRICIAN

Install, maintain and repair electrical equipment.



CROSSWORD



WORD BANK:

gasfitter
 conduit
 powerline technician
 plumber
 steamfitter
 electrician
 pipefitter
 piping
 heating
 HVAC
 volts
 refrigeration
 wiring
 voltage
 sheet metal worker
 millwright
 sprinkler fitter
 Mario

ACROSS

1. Works with sheet metal
2. Installs, maintains and repairs gas lines, meters and heating units
3. A system of wires the provides power to a building or device
4. A unit of measurement in electrical currents
5. Assembles, installs, repairs, maintains, and tests electrical fixtures and systems
6. The process of using energy to warm up a space or building

DOWN

7. Constructs, maintains and repairs overhead and underground power lines and electrical systems
8. The process where energy /heat is removed to lower temperature
9. Installs, repairs and keeps important equipment running smoothly
10. A tube or trough for protecting electrical wiring
11. Video game plumber
12. Heating, Ventilation, Air-Conditioning

SERVICE

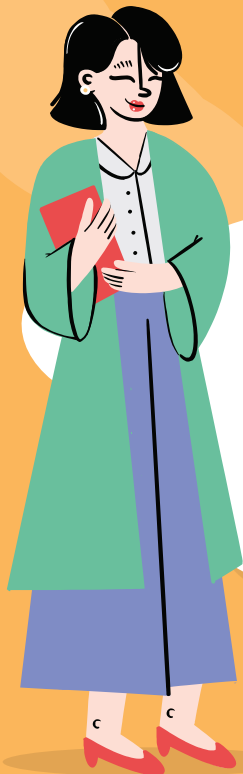
WHAT DO WE RELY ON TRADESPEOPLE
FOR IN SERVICE?

- 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.



MATH LOGIC

$$\text{Whisker} \times \text{Combs and Scissors} - \text{Chef} = 33$$

$$25 \div \text{Combs and Scissors} = \text{Combs and Scissors}$$

$$\text{Whisker} + \text{Fork and Knife} = 10$$

$$\text{Fork and Knife} \times \text{Fork and Knife} - \text{Whisker} = \text{Chef}$$

$$\text{Whisker} = ? \quad \text{Combs and Scissors} = ?$$

$$\text{Chef} = ? \quad \text{Fork and Knife} = 3$$

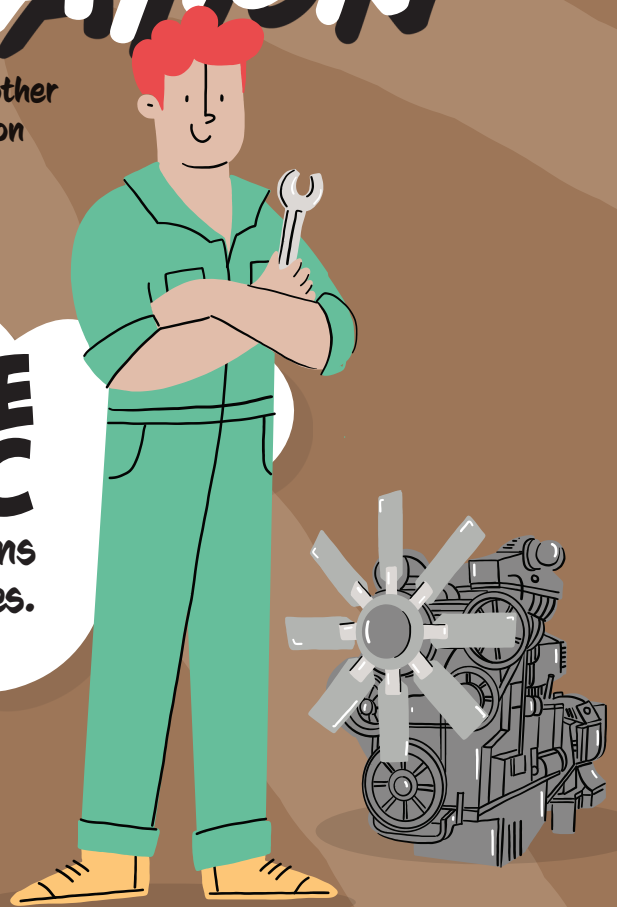
TRANSPORTATION

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

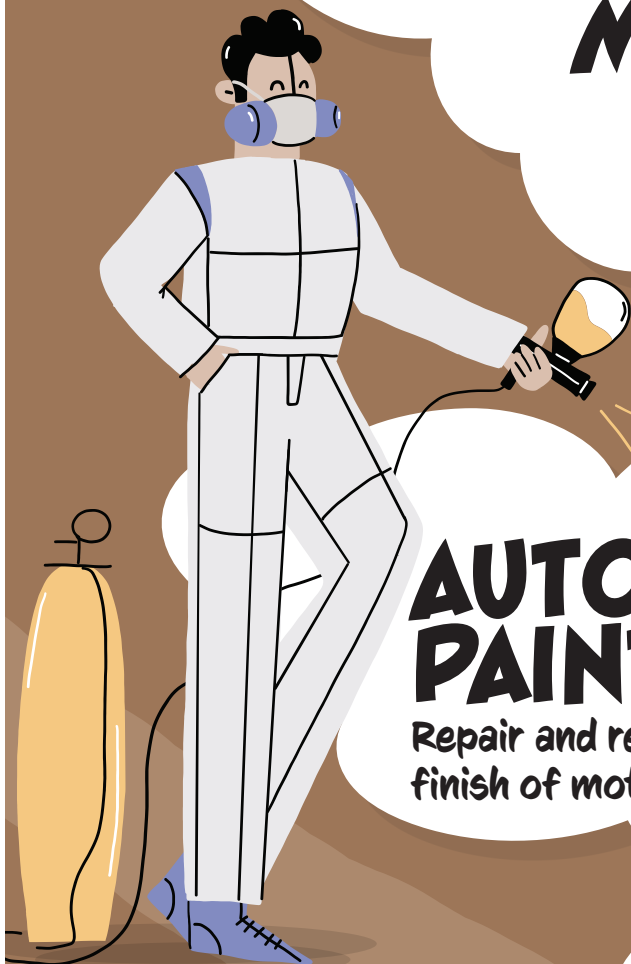
DIESEL ENGINE MECHANIC

Repairs and maintains diesel engines.



AUTOMOTIVE PAINTER

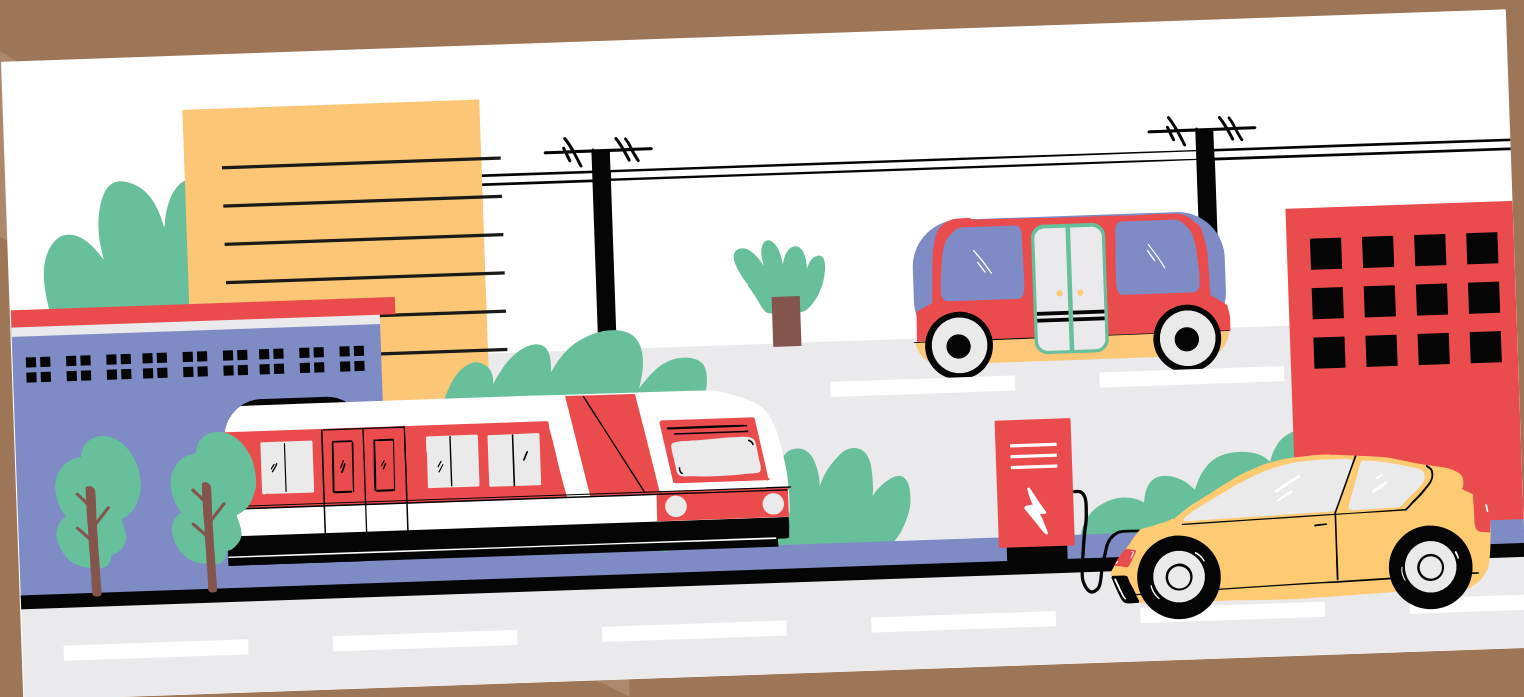
Repair and restore the exterior finish of motor vehicles.



AUTOMOTIVE SERVICE TECHNICIAN

Diagnose and repair cars, vans, trucks and transformers.





SPOT THE 10
DIFFERENCES



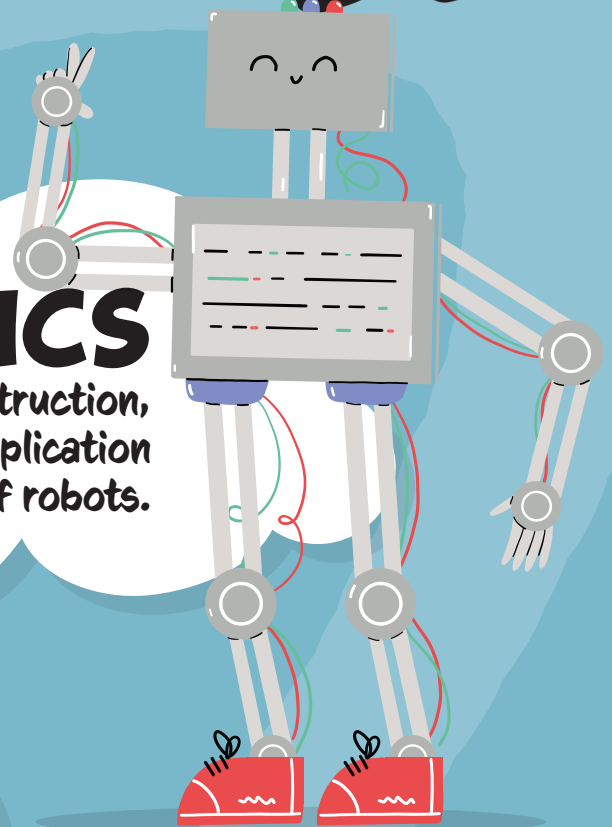
TECHNOLOGIES

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

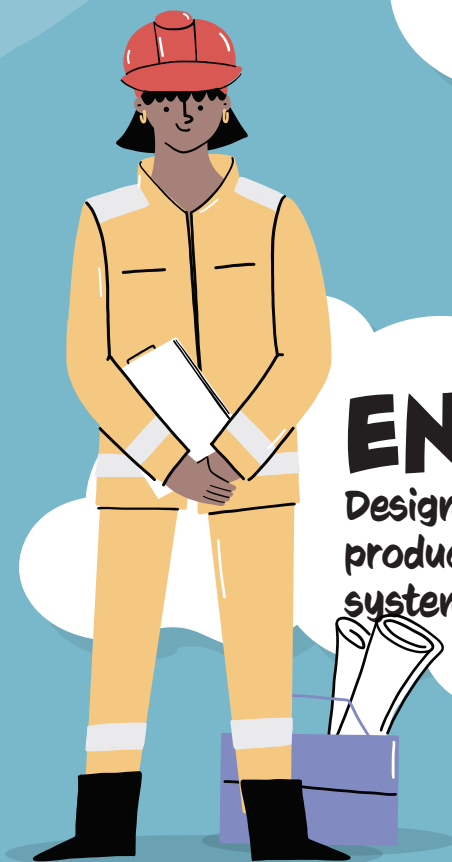
ROBOTICS

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.



LETTER ELIMINATION GRID

As you solve the clues below, cross out the letters from the answer grid.
When you have solved all of the clues correctly, every letter will be crossed out.

You can use each letter only once.

Hint: Start with the clues that you find easiest. If you get stuck look at the remaining letters in the grid for help.

1. Installs and repairs technology equipment

2. The kind of technology that deals with the design, construction, and operation of robots

3. The process of giving the illusion of movement to drawings

4. Designs, updates and builds websites for companies, organizations and individuals.

5. Uses visual elements - like images, colours, and typography - to communicate messages and ideas. Creating things like logos, advertisements and packaging.

A	G	C	E	I	G	R
N	E	D	R	H	I	N
R	D	I	B	I	O	I
T	E	A	O	P	C	E
S	T	N	E	I	V	O
A	C	I	C	M	E	P
O	I	T	E	A	T	S
B	H	S	L	N	W	N

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.

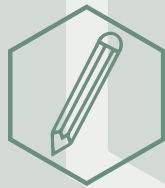


NUMERACY

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.

NOTES

PARTNERSHIPS & SPONSORS

Funding Partners

Funded in part by the Government
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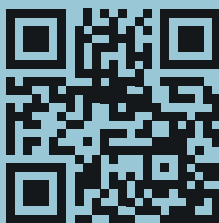
●● @SkillsManitoba

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.



www.skillsmanitoba.ca



Activity Book 2025/2026