YOUR IDEA, OUR WORLD.

Student Worksheets (Grade 6 – 8)
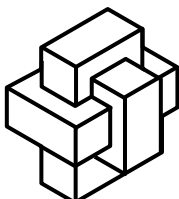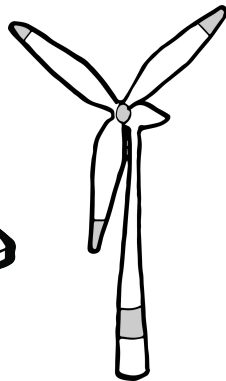
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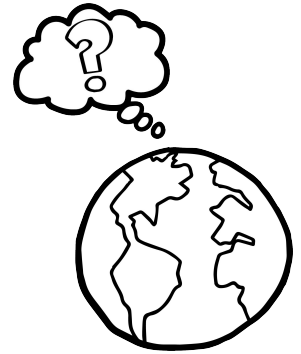
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WHY YOUR IDEAS MATTER

Sometimes, **all it takes is a fresh perspective** to find solutions to challenges in health, sustainability, or supporting equity-seeking groups. You have the power to create change! In this workbook, you'll explore key issues in Canada and use your creativity to design solutions that could improve lives.

Instructions: Choose a "What If?" from the list below and imagine a brighter future.

- ❏ What if everyone in Canada had access to clean drinking water?
- ❏ What if cities ran on 100% renewable energy?
- ❏ What if every Canadian had free access to mental health services?
- ❏ What if everyone had access to affordable housing?
- ❏ What if every school in Canada had a community garden?

1. What would life be like if your "What If" question came true?

_____

_____

_____

_____

2. What changes could be made to help make this brighter future a reality?

_____

_____

_____

_____

Name: _____   Date: _____

THINK GLOBAL, ACT LOCAL

Instructions: Over the next few days, keep your eyes open for challenges related to health, sustainability, or equity-seeking groups in your community. Make a list of what you find (e.g., waste in public spaces, limited access to parks, no recycling bins in your school).

Health	Sustainability	Equity-seeking Groups

Key Terms:

Health	How well your body and mind are working, and it includes everything from physical fitness to mental well-being.
Sustainability	Using resources in a way that protects the environment so future generations can live well, too.
Equity-seeking Groups	Groups of people who don't have the same opportunities or support as others, making it harder for them to succeed.

Name: _____   Date: _____

INNOVATIVE TECHNOLOGIES
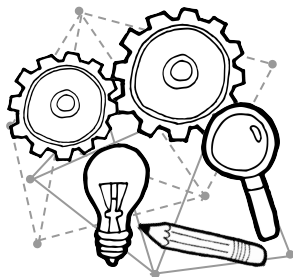
Innovative technology refers to new or improved inventions, processes, or methods designed to solve real-world problems in creative and efficient ways. These solutions can help us to make our world better, both today and in the future.

1. Why is it important to consider the future when developing and using technology?

_____

_____

_____

_____

2. Brainstorm examples of innovative technologies related to each category.

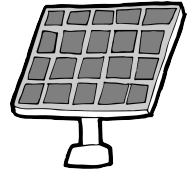|	
Healthcare	
Transportation	
Waste Management	
Agriculture	
Energy	

INNOVATIVE TECHNOLOGIES

3. Write what you know about each innovative technology. Consider how it benefits the environment, health, or equity-seeking groups.
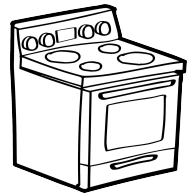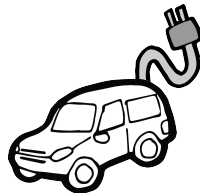
a) Reusable Water Bottles

b) Solar Panels

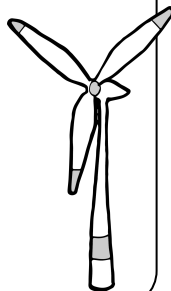c) LED Light Bulbs

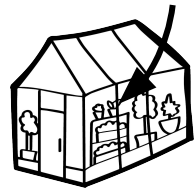d) Energy-Efficient Appliances

e) Electric Vehicles

f) Smart Thermostats

g) Wind Turbines

h) Vertical Farming

Name: _____   Date: _____

◼▮▮ PROBLEM IDENTIFICATION

> You have to identify a **problem** before you can find a **solution**.

1. Choose a focus area.

♡ **Health:** Think about issues related to physical health, mental well-being, access to healthcare, etc.

🍃 **Sustainability:** Consider environmental challenges, resource conservation, renewable energy, etc.

👥 **Equity-seeking Groups:** Reflect on social inequalities, access to education, basic needs, etc.

My Focus Area: _____

2. Identify 3 different issues you have noticed in your community related to this focus area. Explain their impact. An example is shown.

Issue	Impact
Example: There aren't enough mental health clinics or counsellors in the community.	This results in untreated anxiety, depression, and stress, affecting individuals and families.
1.	
2.	
3.	

Name: _____ Date: _____

PROBLEM STATEMENT

1. Choose one challenge and write a problem statement. Which issue in your community do you want to address?

Problem Statement:

_____

_____

_____

_____

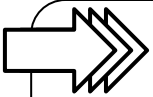**2. Where could you go to learn more about this topic? Be specific.**

_____

_____

_____

_____

_____

3. Explain the impact of solving the identified problem. This could include improved health, social benefits, or environmental sustainability.

Name: _____ Date: _____

FINDING SOLUTIONS

Once you have identified your **problem**, find a STEM-based (science, technology, engineering, math) solution related to your issue.

1. Think of three possible STEM-based solutions that could help solve the challenge you identified.
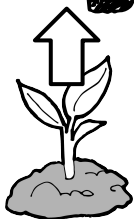
1

2

3

2. Using point form notes, evaluate the impact (how it will help), cost, and ease of implementation (easy or difficult to accomplish) for each solution.

Criteria	Solution 1	Solution 2	Solution 3
Impact			
Cost			
Ease of Implementation			

SOLUTION STATEMENT

Choose the solution you are most excited about and believe will have a **positive impact** in your community.

1. How will you address an issue in your community?

Solution Statement:

_____

_____

_____

_____

2. Why did you choose this solution over the others? Consider impact, cost, and ease of implementation.

_____

_____

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_____

_____

Peer Review: Share your potential solutions with a peer or another team. Obtain constructive feedback and consider different perspectives before making a final decision. Record their feedback here.

_____

_____

_____

_____

PROJECT PRESENTATION

You will create a slideshow presentation to share your idea with your classmates. Use the organizer below to plan the content (clear vocabulary and images) for your slides.

1. Title Slide	2.	3.
4.	5.	6.
7.	8.	9.

Name: _____ Date: _____

▮▮▮ PROJECT PLANNING – Part 1

Project Title: _____

Selected Solution:

_____

_____

_____

_____

Project Objectives: Clearly state the goals of your project.

Target Audience: Identify the specific group that will benefit from your solution.

Resources, Materials, and Tools: List what you'll need to carry out your solution.

1. _____

2. _____

3. _____

4. _____

5. _____

Name: _____ Date: _____

PROJECT PLANNING - Part 2

Phase 1: Planning

Task	Deadline
Problem Identification	
Finding Solutions	
Overall Idea Pitch	

Phase 2: Editing and Revising Ideas

Task	Deadline
First Review	
Second Review	

Phase 3: Entering the Contest

Task	Deadline
Contest Entry	December 20, 2024

Reflection: What challenges do you anticipate during each phase, and how do you plan to overcome them?

_____

_____

_____

_____

Name: _____ Date: _____

▮▮▌▌ RUBRIC

Total: ___ /80 = ___ %

Project Title: _____

Criteria	**Level 1**	**Level 2**	**Level 3**	**Level 4**	
Identification of Challenge	Fails to identify or support a challenge.	Identifies with limited depth.	Identifies with adequate research.	Clearly identifies with thorough research.	‾20
STEM-Based Solution	Proposes an unclear solution with little understanding.	Proposes a basic solution with limited understanding.	Proposes a viable solution with good understanding.	Proposes an innovative solution with clear understanding.	‾20
Action Plan	Action plan is unclear, with vague goals and steps.	Action plan has somewhat clear goals but lacks detailed steps.	Action plan has clear goals with detailed steps.	Action plan is exceptionally clear, with specific, well-defined goals.	‾20
Presentation Skills	Presents disorganized content with limited visuals.	Delivers somewhat organized presentation with basic visuals.	Delivers clear and organized presentation with visuals.	Delivers well-organized and engaging presentation.	‾20

Comments:

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