

Grade 5 Overall Expectations

Language	<p>Oral communication</p> <ul style="list-style-type: none">❖ use speaking skills and strategies appropriately to communicate with different audiences for a variety of purposes. <p>Reading</p> <ul style="list-style-type: none">❖ read and demonstrate an understanding of a variety of literary and informational texts, using a range of strategies to construct meaning❖ use knowledge of words and cueing systems to read fluently. <p>Writing</p> <ul style="list-style-type: none">❖ generate, gather, and organize ideas and information to write for an intended purpose and audience.❖ draft and revise their writing, using a variety of informational, literary, and graphic forms and stylistic elements appropriate for the purpose and audience.❖ use editing, proofreading, and publishing skills and strategies, and knowledge of language conventions, to correct errors, refine expression, and present their work effectively. <p>Media</p> <ul style="list-style-type: none">❖ create a variety of media texts for different purposes and audiences, using appropriate forms, conventions, and techniques.
Math	<p>Number Sense and Numeration</p> <ul style="list-style-type: none">❖ solve problems involving the multiplication of multi-digit whole numbers, and involving the addition and subtraction, using a variety of strategies.❖ demonstrate an understanding of proportional reasoning by investigating whole-number rate.❖ read, represent, compare, and order whole numbers to 100 000. <p>Geometry</p> <ul style="list-style-type: none">❖ identify and classify two-dimensional shapes by angle properties. <p>Patterning</p> <ul style="list-style-type: none">❖ determine, through investigation using a table of values, relationships in growing patterns. <p>Data Management and Probability</p> <ul style="list-style-type: none">❖ collect and organize discrete or continuous primary data and secondary data and display the data using charts and graphs.❖ read, describe, and interpret primary data and secondary data presented in charts and graphs.

Grade 5 Overall Expectations

Science	<p>Understanding Life Systems: Human Organ Systems</p> <ul style="list-style-type: none">❖ investigate the structure and function of the major organs of various human body systems.❖ demonstrate an understanding of the structure and function of human body systems and interactions within and between systems. <p>Understanding Structures and Mechanisms: Forces Acting on Structures and Mechanisms</p> <ul style="list-style-type: none">❖ analyse social and environmental impacts of forces acting on structures and mechanisms.❖ investigate forces that act on structures and mechanisms. <p>Understanding Matter and Energy: Properties of and changes in matter</p> <ul style="list-style-type: none">❖ evaluate the social and environmental impacts of processes used to make everyday products. <p>Understanding Earth and Space Systems: Conservation of energy and resources</p> <ul style="list-style-type: none">❖ analyse the immediate and long-term effects of energy and resource use on society and the environment, and evaluate options for conserving energy and resources.❖ investigate energy transformation and conservation
Social Studies	<p>People and Environments: The Role of Government and Responsible Citizenship</p> <ul style="list-style-type: none">❖ demonstrate an understanding of the roles and key responsibilities of citizens and of the different levels of government in Canada.❖ assess responses of governments in Canada to some significant issues.❖ investigate Canadian social and/or environmental issues from various perspectives.

Materials: Students will need access to the following:

- ❖ A writing utensil (i.e. a pencil) and an eraser
- ❖ Five sheets of blank paper

Protecting Earth - Our Mission

LANGUAGE



READ

Read "Heroes of the World" (p.5).



THINK

Joe and Mark created *Heroes of the World*. One of their goals was to include diverse characters from countries all over the world and to help people understand the importance of unity (bringing people together).



WRITE & SKETCH

1. Write a short answer paragraph answering the following questions:

- ❖ Why do you think Joe and Mark used the theme unity?
- ❖ Why is this theme important especially as it relates to our world today? Explain.
- ❖ Which country do you feel most connected to and why?

2. Sketch a hero to join *Heroes of the World*. Include symbols that highlight positive experiences/memories of the country your hero represents?



EXPLAIN

Explain to someone at home: Which other country will your superhero work closely with to protect the world? Why did you choose that country?

SOCIAL STUDIES



READ

Read "Water: A Human Right For All" (p.5).



THINK

If you had the chance to stand in front of the Canadian Parliament, how would you advocate for water? What would you say?



WRITE

Write a short answer paragraph answering the following questions:

- ❖ Is having access to clean water a basic right that everyone in Canada should have?
- ❖ Why do you think that Indigenous peoples do not have access to clean water?

Write a letter to your local member of parliament explaining why you think everyone should have access to clean water. What is your message? Who is your audience? What persuasive words will you use?

Remember to include: Date, greeting, body paragraphs, closing with signature.



CREATE

Create a sign with one catchy phrase advocating for access to clean water for everyone. What is your message? How will your sign convey that message? What would your sign look like?

Protecting Earth - Our Mission

SCIENCE



READ

Read “Water Footprint and Jeans” (p.6) to learn more about how much water it takes to make jeans.



THINK

How might step 5 help you understand your water consumption when washing your clothes? What does it mean to conserve water? Conservation is the protection of things found in nature. It requires the sensible use of all Earth's natural resources: water, soil, minerals, wildlife, and forests. People who care about conservation try to preserve natural resources so they will still be around in the future. Think about what you learned from the reading.



WRITE

Brainstorm ways to reduce water consumption at home or to conserve water. Share these ideas with someone at home.

Conservation. (2020). In Encyclopædia Britannica. Retrieved from <https://school.eb.com/levels/elementary/article/conservation/352993>. Accessed May 15th, 2020.

MATHEMATICS

Many people love wearing jeans. On average, a teenager owns approximately 7 pairs of jeans. Are you surprised by this number?

If each pair of jeans requires 3,782 litres of water, how much water does it take to create (and use) jeans for two teens in a household?



ACT

# of jeans	Water use (Litres)
1	3,782
2	7,564
3	?
	?

Create a table of values or a chart (see example) to help determine the total.

Create an equation to represent this data. Check your work. (Remember order of operations.)

Retrieved from Canada Weather: Toronto, Ontario. AccuWeather. (2020) <https://www.accuweather.com/en/ca/toronto/m5h/april-weather/55488?year=2019> Access on May 15, 2020.

Protecting Earth - Our Mission

Heroes of the World

Heroes of the World is a project created by two Canadian artists, Mark Williams and Joe Bonsu along with their business manager, Shawn Cuffie. It involves the creation of superheroes from around the world, placing each superhero in a different country and emphasizing the importance of unity through diversity in their artwork. "This work appeals to everyone and it instills a strong sense of pride for your heritage but also touches strongly on the idea that diversity enriches our experiences and ultimately unites us," explained the

creators of the project.

Since 2005, Heroes of the World has evolved into a brand that represents different countries through the concept of the superhero.



Oreh Gaia is one of the main heroes from Heroes of the World. He has the power to harness and control our planet Earth's elements in order to defend and protect the world, and the people in it.

Adapted from, Heroes of The World - You are a Hero of The World! (2020) Retrieved from <https://thehero-softheworld.com/>. Accessed on May 19, 2020.

Superhero connection: Did you know Aquaman from DC comics, is the defender of the underwater kingdom? That means he protects the oceans and all underwater animals.

Adapted from, Aquaman. (2020). In Encyclopædia Britannica. Retrieved from <https://school.eb.com/levels/middle/article/Aquaman/443752>. Accessed May 15, 2020.

Water: A Human Right For All

Due to lack of support by the government, a number of Indigenous communities in Ontario currently do not have access to running water in their homes. Some communities have access to dirty water which must be boiled before it can be used for drinking or bathing. In January 2018, the Federal Government stated that 91 Indigenous communities had to follow drinking water advisories (warnings). Water activist, Autumn Peltier stated, "There are many First Nations communities that cannot drink their water. Canada is one of the richest countries in the world. Why should our people be living in these conditions?"

Adapted from, Amnesty International. Our Work: Issues. The Right to Water. (2018). Retrieved from, <https://www.amnesty.ca/our-work/issues/indigenous-peoples/indigenous-peoples-in-canada/the-right-to-water> <https://secondstorypress.ca/kids/ourfuture>. Accessed May 18, 2020.

Protecting Earth - Our Mission

Water Footprint and Jeans

Just like superheroes, our responsibility as humans is to protect our bodies of water, such as oceans and lakes. Did you know the entire life cycle of a pair of jeans requires 3,782 litres of water? Here is how:

- ❖ Step 1: Growing a cotton plant which is used to make blue jeans and requires 2,565 litres of water.
- ❖ Step 2: Turning the cotton into fabric uses 236 litres of water.
- ❖ Step 3: Cutting the fabric into the jeans, then sewing and packaging the jeans uses 111 litres of water.
- ❖ Step 4: Shipping the jeans and getting them into the stores, that requires 10 litres of water.
- ❖ Step 5: Washing your jeans which requires 860 litres of water.
- ❖ Step 6: Recycling your jeans - but this requires no water.

Adapted from, Scholastic Website (2020). <http://www.scholastic.com/snp/waterworld-levi-1.htm> Accessed October 8th, 2020.