

## Our Language, Our Story: Curriculum Connections

**Division: Intermediate**

**Subject: Mathematics**

**Strand: Number Sense & Numeration**

### Overall Expectations

Grade 7	Grade 8
<ul style="list-style-type: none"> <li>• represent, compare, and order numbers, including integers</li> <li>• demonstrate an understanding of addition and subtraction of fractions and integers, and apply a variety of computational strategies to solve problems involving whole numbers and decimal numbers</li> <li>• demonstrate an understanding of proportional relationships using percent, ratio, and rate</li> </ul>	<ul style="list-style-type: none"> <li>• represent, compare, and order equivalent representations of numbers, including those involving positive exponents</li> <li>• solve problems involving whole numbers, decimal numbers, fractions, and integers, using a variety of computational strategies</li> <li>• solve problems by using proportional reasoning in a variety of meaningful contexts</li> </ul>

### Virtues and Themes: Possible Connections

<p><b>Theological Virtue: Hope</b> By hope, we desire the happiness of the Kingdom and eternal life. Hopeful people ... work for peace and justice on earth despite ... many obstacles. They trust God's plan will be fulfilled, even if not in their lifetime.</p>	<p>Students can use their number sense and numeration skills to understand the importance of practicing Christian hope. We can invite students to apply these skills to classroom or school social action projects - for example, with fundraising, planning, counting monies and analyzing statistics. These initiatives can help students see the inequities in our world, while learning to practice hope through justice activities. They may come to a greater appreciation for what they have and believe in God's promises for their own lives.</p>
<p><b>Cardinal Virtue: Fortitude</b> <i>Fortitude</i> (courage) involves practicing what is good and just when it is difficult or even dangerous. A person of fortitude practices patience when meeting obstacles while working to do what is right</p>	<p>Within the mathematics classroom, some students find the development of mathematics skills difficult. This presents an important opportunity to teach students about fortitude. We can ask other students to volunteer to help them. The volunteer learns to practice what is good and just, and the struggling student learns the value of practicing patience as they focus their energy in learning difficult new skills.</p>
<p><b>Catholic Character Theme: Community</b> The Holy Spirit unites us as a community, and gives each of us gifts to help one another grow as followers of Jesus. Community is visible whenever the friendship, love and kindness of Jesus are present...</p>	<p>Students can learn about community by applying their number sense and numeration skills to social action projects during the year. The creation of food hampers at Christmas time or helping organize canned food drives requires the application of math skills. Solving word problems that focus on social action will also acquaint the students with the challenges people face in their area and at the same time apply their skills in a meaningful context that witnesses their faith and builds up the community.</p>
<p><b>Catholic Character Theme: Solidarity</b> Solidarity is about standing together with a person or group of persons who are suffering. As disciples of Jesus, we are called to solidarity with all persons both near and far away.</p>	<p>Number sense and numeration skills can help us develop and practice solidarity strategies. We can use these skills to identify different groups of people who suffer in our world, and look at ways people reach out to help them. We can look at statistics on numbers of poor persons, of refugees, victims of hunger. We can use percent, ratio and unit rate to estimate how much food and water these persons need. We can use multiplication, division, addition and subtraction to see how our efforts can help meet their needs.</p>

### Support Resources:

#### *Journey Activities*

Grade 7	Grade 8
CGE 7i - Catholic Graduate Expectation - A Responsible Citizen: Respects the	CGE 1d - Catholic Graduate Expectation - A Discerning Believer: Develops

environment and uses resources wisely.	attitudes and values founded on Catholic social teaching and acts to promote social responsibility, human solidarity and the common good
<p>Students will:</p> <p>reflect on their responsibility to use the Earth's resources wisely and for the common good. Lead the students in an examination of the impact of rainforest depletion on the world.</p> <p>Use the following facts to support a discussion about respect for the environment and the wise use of resources. Rainforests comprise 1.8% of the earth's surface. The earth's surface is 148,300,000 sq.km. There are 265,000 known rainforest plants. One fourth of medicines are derived from these plants.</p> <p>Research information related to the rainforest, and provide alternative solutions to existing problems.</p>	<p>Students will:</p> <p>Examine and present methods of waste disposal and its effects on the ecosystem using a calculator.</p> <p>Research facts about average Canadian waste production. Use these facts to prepare, share and collaboratively solve problems using percent and fractions.</p> <p>Emphasize that careless wastefulness is an abuse of the gift of resources that God has provided.</p>

### **Curriculum Frameworks**

<http://www.eoccc.org/onlinefw/onlineframeworks.html>

<p><b>Grade 6/7</b></p> <p>Framework 1. Theme: Love &amp; Justice</p> <p>Framework 2. Theme: Stewardship for Creation</p> <p>Framework 3. Theme: Peace</p> <p>Framework 4. Theme: Dignity of the Human Person</p> <p>Framework 5. Theme: Mystery, Wonder &amp; Awe</p>	<p><b>Grade 7</b></p> <p>Framework 1. Theme: Dignity of the Human Person</p> <p>Framework 2. Theme: Faith</p> <p>Framework 6. Theme: Human Rights &amp; Responsibilities</p>
<p><b>Grade 7/8</b></p> <p>Framework 1. Theme: Faith</p> <p>Framework 3. Theme: Hope</p> <p>Framework 5. Theme: Mystery, Wonder &amp; Awe</p>	<p><b>Grade 8</b></p> <p>Framework 1. Theme: Stewardship for Creation</p> <p>Framework 2. Theme: Community and the Common Good</p> <p>Framework 4. Theme: Hope</p> <p>Framework 5. Theme: Dignity of the Human Person</p>

### **Curriculum Support for Catholic Schools**

<http://www.eoccc.org/csfc>

<p>Catholic Theme: <i>Community and the Common Good</i></p> <p><a href="http://www.eoccc.org/csfc/themes/commongood.html">http://www.eoccc.org/csfc/themes/commongood.html</a></p> <p>Catholic Theme: <i>Hope</i></p> <p><a href="http://www.eoccc.org/csfc/themes/hope.html">http://www.eoccc.org/csfc/themes/hope.html</a></p> <p>Anchor Concept: <i>Community</i></p> <p><a href="http://www.eoccc.org/csfc/concepts/acomunity.html">http://www.eoccc.org/csfc/concepts/acomunity.html</a></p>	<p>Catholic Theme: <i>Love and Justice</i></p> <p><a href="http://www.eoccc.org/csfc/themes/lovejustice.html">http://www.eoccc.org/csfc/themes/lovejustice.html</a></p> <p>Anchor Concept: <i>Solidarity</i></p> <p><a href="http://www.eoccc.org/csfc/concepts/asolidarity.html">http://www.eoccc.org/csfc/concepts/asolidarity.html</a></p>
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