

Our Language, Our Story: Curriculum Connections

Division: Intermediate

Subject: Mathematics

Strand: Measurement

Overall Expectations

| Grade 7 | Grade 8 |
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| <ul style="list-style-type: none"> • report on research into real-life applications of area measurements • determine the relationships among units and measurable attributes, including the area of a trapezoid and the volume of a right prism | <ul style="list-style-type: none"> • research, describe, and report on applications of volume and capacity measurement • determine the relationships among units and measurable attributes, including the area of a circle and the volume of a cylinder |

Virtues and Themes: Possible Connections

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| <p>Theological Virtue: Love The gift of love enables us to love God above all things and to love others as God loves them. Love is visible in our Catholic schools wherever the kindness, service and self-giving of Jesus are found.</p> | <p>Love is demonstrated in the day-to-day classroom as students help another learn. Love is also visible in the way students assist persons in need at home and throughout the world. These demonstrations of love can be incorporated into measurement problem solving. Students can calculate volume and capacity of shipping containers (cans, boxes, crates or cardboard barrels) filled with goods for the poor and needy. All knowledge is given for the service of love; measurement can be an occasion to grow in understanding and practicing love.</p> |
| <p>Theological Virtue: Justice A just person fulfills their obligations to God in prayer and worship, and to neighbour in mercy and fairness.</p> | <p>Students can learn how to practice justice by applying measurement concepts to real life situations; for example, to social issues such as housing. They can consider initiatives such as Habitat for Humanity, then get information from a family member working in construction about materials needed to build a house (e.g. volume of cement, sheets of plywood, board feet of two-by-four lumber). They can use measurement skills to calculate volume and board footage, cost out materials, and thus learn more about what it means to act justly.</p> |
| <p>Catholic Character Theme: Stewardship Stewardship is about caring for the gifts God has entrusted to us. We are called to be good stewards of our talents, our bodies, our souls, our communities and of God's creation.</p> | <p>When we look at the world around us, we see many different shapes that we can measure and describe. We look at the buildings made by talented people. We need to know how to measure them, calculate their dimensions, compare and describe their attributes to keep them clean and in good repair (e.g., for paint or soap to paint walls and clean floors). We can measure out how much food we need, such as rice, pasta, water, milk, bread etc. We can measure how much water our plants need, how much food and water our pets need. These operations can help us be good stewards of the buildings, people, pets and creation around us.</p> |
| <p>Catholic Character Theme: Community In our Catholic school communities we learn to see and love Jesus in school work, in prayer, in one another and in all the members of our community. Community is visible when we see friendship, kindness and love in our school community.</p> | <p>The mathematics classroom is a place where we can learn about what it means to be community in the school and in the wider world. We can begin to teach about community by establishing a classroom environment where it is safe to make mistakes and where one realizes that it is through mistakes that we often learn. A community environment is a place where all members take responsibility for one another by providing assistance and support during the learning process.</p> |

Support Resources:

Journey Activities

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| Grade 7 | Grade 8 |
| CGE 4g - Catholic Graduate Expectation - A Self-Directed, Responsible, Lifelong Learner : Examines and reflects on one's personal values, abilities and aspirations influencing life's choices and opportunities. | CGE 3f - Catholic Graduate Expectation - A Reflective and Creative Thinker: Examines, evaluates and applies knowledge of interdependent systems (physical, political, ethical, socio- economic and ecological) for the development of a just and compassionate society. |
| Students will: Examine the cost of a manufactured product, and the cost of the raw materials. Determine the relationship between a good and the actual cost of manufacturing it. Reflect on the value of a good as opposed to its cost. Do we buy items because we need them, or because we perceive that they give us status or improve our self-esteem? | Students will: Investigate the minimum wage. Determine the cost of providing the needs of an individual (e.g. clothing, shelter, food, transportation) Reflect on the concept of a "just" wage. Consider the percentage of individuals /families who live below the poverty line and examine the interdependent systems that play both a positive and negative role. |

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| Curriculum Frameworks http://www.eoccc.org/onlinefw/onlineframeworks.html | |
| Grade 6/7 Framework 2. Theme: Stewardship for Creation Framework 4. Theme: Dignity of the Human Person Framework 5. Theme: Mystery, Wonder & Awe | Grade 7 Framework 1. Theme: Dignity of the Human Person Framework 3. Theme: Mystery, Wonder & Awe Framework 4. Theme: Stewardship for Creation |
| Grade 7/8 Framework 2. Theme: Dignity of the Human Person Framework 3. Theme: Hope | Grade 8 Framework 1. Theme: Stewardship for Creation Framework 3. Theme: Mystery, Wonder & Awe |

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| Curriculum Support for Catholic Schools http://www.eoccc.org/csfc | |
| Catholic Theme: <i>Stewardship for Creation</i> http://www.eoccc.org/csfc/themes/creation.html Anchor Concept: <i>Stewardship</i> http://www.eoccc.org/csfc/concepts/astewardship.html Catholic Theme: <i>Love and Justice</i> http://www.eoccc.org/csfc/themes/lovejustice.html | Catholic Theme: <i>Community and the Common Good</i> http://www.eoccc.org/csfc/themes/commongood.html Anchor Concept: <i>Community</i> http://www.eoccc.org/csfc/concepts/acommunity.html Catholic Theme: <i>Preferential Option for the Poor & Vulnerable</i> http://www.eoccc.org/csfc/themes/poor.html |