

Main Criteria: Forward Education
Secondary Criteria: British Columbia Curriculum
Subjects: Mathematics, Science, Technology Education
Grades: 5, 6, Key Stage 2

Forward Education

Smart Farming with Automated Watering

British Columbia Curriculum
Mathematics
Grade 5 - Adopted: 2016

CURRICULUM ORGANIZER / COURSE	BC.MA.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	5.CC.1.	Reasoning and analyzing

PRESCRIBED LEARNING OUTCOME 5.CC.1.1. Use reasoning to explore and make connections

PRESCRIBED LEARNING OUTCOME 5.CC.1.5. Model mathematics in contextualized experiences

CURRICULUM ORGANIZER / COURSE	BC.MA.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	5.CC.2.	Understanding and solving

PRESCRIBED LEARNING OUTCOME 5.CC.2.1. Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving

PRESCRIBED LEARNING OUTCOME 5.CC.2.2. Visualize to explore mathematical concepts

PRESCRIBED LEARNING OUTCOME 5.CC.2.3. Develop and use multiple strategies to engage in problem solving

PRESCRIBED LEARNING OUTCOME 5.CC.2.4. Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures

CURRICULUM ORGANIZER / COURSE	BC.MA.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	5.CC.3.	Communicating and representing

PRESCRIBED LEARNING OUTCOME 5.CC.3.1. Communicate mathematical thinking in many ways

PRESCRIBED LEARNING OUTCOME 5.CC.3.3. Explain and justify mathematical ideas and decisions

CURRICULUM ORGANIZER / COURSE	BC.MA.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	5.CC.4.	Connecting and reflecting

PRESCRIBED LEARNING OUTCOME 5.CC.4.1. Reflect on mathematical thinking

PRESCRIBED LEARNING OUTCOME 5.CC.4.2. Connect mathematical concepts to each other and to other areas and personal interests

**British Columbia Curriculum
Mathematics
Grade 6 - Adopted: 2016**

CURRICULUM ORGANIZER / COURSE	BC.MA.6.BI.	Big Ideas
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PRESCRIBED LEARNING OUTCOME / ORGANIZER 6.BI.3. Linear relations can be identified and represented using expressions with variables and line graphs and can be used to form generalizations.

CURRICULUM ORGANIZER / COURSE	BC.MA.6.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:

EXPECTATION / SUB ORGANIZER	6.CC.1.	Reasoning and analyzing
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PRESCRIBED LEARNING OUTCOME 6.CC.1.1. Use logic and patterns to solve puzzles and play games

PRESCRIBED LEARNING OUTCOME 6.CC.1.2. Use reasoning and logic to explore, analyze, and apply mathematical ideas

PRESCRIBED LEARNING OUTCOME 6.CC.1.6. Model mathematics in contextualized experiences

CURRICULUM ORGANIZER / COURSE	BC.MA.6.CC.	Curricular Competencies
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PRESCRIBED LEARNING OUTCOME / ORGANIZER Students are expected to be able to do the following:

EXPECTATION / SUB ORGANIZER	6.CC.2.	Understanding and solving
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PRESCRIBED LEARNING OUTCOME 6.CC.2.1. Apply multiple strategies to solve problems in both abstract and contextualized situations

PRESCRIBED LEARNING OUTCOME 6.CC.2.2. Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving

PRESCRIBED LEARNING OUTCOME 6.CC.2.3. Visualize to explore mathematical concepts

PRESCRIBED LEARNING OUTCOME 6.CC.2.4. Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures

CURRICULUM ORGANIZER / COURSE	BC.MA.6.CC.	Curricular Competencies
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PRESCRIBED LEARNING OUTCOME / ORGANIZER Students are expected to be able to do the following:

EXPECTATION / SUB ORGANIZER	6.CC.3.	Communicating and representing
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PRESCRIBED LEARNING OUTCOME 6.CC.3.2. Explain and justify mathematical ideas and decisions

PRESCRIBED LEARNING OUTCOME 6.CC.3.3. Communicate mathematical thinking in many ways

CURRICULUM ORGANIZER / COURSE	BC.MA.6.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	6.CC.4.	Connecting and reflecting

PRESCRIBED LEARNING OUTCOME 6.CC.4.1. Reflect on mathematical thinking

PRESCRIBED LEARNING OUTCOME 6.CC.4.2. Connect mathematical concepts to each other and to other areas and personal interests

PRESCRIBED LEARNING OUTCOME 6.CC.4.3. Use mathematical arguments to support personal choices

**British Columbia Curriculum
Science
Grade 5 - Adopted: 2016**

CURRICULUM ORGANIZER / COURSE	BC.SC.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	5.CC.1.	Questioning and predicting

PRESCRIBED LEARNING OUTCOME 5.CC.1.2. Make observations in familiar or unfamiliar contexts

CURRICULUM ORGANIZER / COURSE	BC.SC.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	5.CC.2.	Planning and conducting

PRESCRIBED LEARNING OUTCOME 5.CC.2.4. Observe, measure, and record data, using appropriate tools, including digital technologies

CURRICULUM ORGANIZER / COURSE	BC.SC.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	5.CC.3.	Processing and analyzing data and information

PRESCRIBED LEARNING OUTCOME 5.CC.3.1. Experience and interpret the local environment

PRESCRIBED LEARNING OUTCOME 5.CC.3.3. Construct and use a variety of methods, including tables, graphs, and digital technologies, as appropriate, to represent patterns or relationships in data

PRESCRIBED LEARNING OUTCOME 5.CC.3.4. Identify patterns and connections in data

PRESCRIBED LEARNING OUTCOME 5.CC.3.6. Demonstrate an openness to new ideas and consideration of alternatives

CURRICULUM ORGANIZER / COURSE	BC.SC.5.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	5.CC.5.	Applying and innovating

PRESCRIBED LEARNING OUTCOME 5.CC.5.1. Contribute to care for self, others, and community through personal or collaborative approaches

PRESCRIBED LEARNING OUTCOME 5.CC.5.2. Co-operatively design projects

PRESCRIBED LEARNING OUTCOME 5.CC.5.3. Transfer and apply learning to new situations

PRESCRIBED LEARNING OUTCOME 5.CC.5.4. Generate and introduce new or refined ideas when problem solving

CURRICULUM ORGANIZER / COURSE	BC.SC.5.CC.	Curricular Competencies
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PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	5.CC.6.	Communicating

PRESCRIBED LEARNING OUTCOME 5.CC.6.1. Communicate ideas, explanations, and processes in a variety of ways

CURRICULUM ORGANIZER / COURSE	BC.SC.5.C.	Content
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to know the following

EXPECTATION / SUB ORGANIZER 5.C.9. The nature of sustainable practices around BC's resources

**British Columbia Curriculum
Science
Grade 6 - Adopted: 2016**

CURRICULUM ORGANIZER / COURSE	BC.SC.6.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	6.CC.1.	Questioning and predicting

PRESCRIBED LEARNING OUTCOME 6.CC.1.2 Make observations in familiar or unfamiliar contexts

CURRICULUM ORGANIZER / COURSE	BC.SC.6.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	6.CC.2.	Planning and conducting

PRESCRIBED LEARNING OUTCOME 6.CC.2.4. Observe, measure, and record data, using appropriate tools, including digital technologies

CURRICULUM ORGANIZER / COURSE	BC.SC.6.CC.	Curricular Competencies
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PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	6.CC.3.	Processing and analyzing data and information

PRESCRIBED LEARNING OUTCOME 6.CC.3.1. Experience and interpret the local environment

PRESCRIBED LEARNING OUTCOME 6.CC.3.3. Construct and use a variety of methods, including tables, graphs, and digital technologies, as appropriate, to represent patterns or relationships in data

PRESCRIBED LEARNING OUTCOME 6.CC.3.4. Identify patterns and connections in data

PRESCRIBED LEARNING OUTCOME 6.CC.3.6. Demonstrate an openness to new ideas and consideration of alternatives

CURRICULUM ORGANIZER / COURSE	BC.SC.6.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	6.CC.5.	Applying and innovating

PRESCRIBED LEARNING OUTCOME 6.CC.5.1. Contribute to care for self, others, and community through personal or collaborative approaches

PRESCRIBED LEARNING OUTCOME 6.CC.5.2. Co-operatively design projects

PRESCRIBED LEARNING OUTCOME 6.CC.5.3. Transfer and apply learning to new situations

PRESCRIBED LEARNING OUTCOME 6.CC.5.4. Generate and introduce new or refined ideas when problem solving

CURRICULUM ORGANIZER / COURSE	BC.SC.6.CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following

EXPECTATION / SUB ORGANIZER	6.CC.6.	Communicating
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PRESCRIBED
LEARNING
OUTCOME

6.CC.6.1. Communicate ideas, explanations, and processes in a variety of ways