Main Criteria: Forward Education

Secondary Criteria: British Columbia Curriculum

Subjects: Mathematics, Science, Technology Education

Grades: 7, 8, Key Stage 3

Forward Education

Wildfire detection with Autonomous Vehicles

British Columbia Curriculum

Mathematics

Grade 7 - Adopted: 2016

		Glade 7 - Aubpieu. 2010
CURRICULUM ORGANIZER / COURSE	BC.MA.7. BI.	Big Ideas
PRESCRIBED LEARNING OUTCOME / ORGANIZER	7.BI.3.	Linear relations can be represented in many connected ways to identify regularities and make generalizations.
CURRICULUM ORGANIZER / COURSE	BC.MA.7. CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	7.CC.1.	Reasoning and analyzing
PRESCRIBED LEARNING OUTCOME	7.CC.1.1.	Use logic and patterns to solve puzzles and play games
PRESCRIBED LEARNING OUTCOME	7.CC.1.2.	Use reasoning and logic to explore, analyze, and apply mathematical ideas
PRESCRIBED LEARNING OUTCOME	7.CC.1.6.	Model mathematics in contextualized experiences
CURRICULUM ORGANIZER / COURSE	BC.MA.7. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	7.CC.2.	Understanding and solving
PRESCRIBED	7.CC.2.1.	Apply multiple strategies to solve problems in both abstract and contextualized situations

PRESCRIBED 7.CC.2.1. Apply multiple strategies to solve problems in both abstract and contextualized situations LEARNING

OUTCOME

PRESCRIBED LEARNING OUTCOME	7.CC.2.2.	Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving
PRESCRIBED LEARNING OUTCOME	7.CC.2.3.	Visualize to explore mathematical concepts
PRESCRIBED LEARNING OUTCOME	7.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.7. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	7.CC.3.	Communicating and representing
PRESCRIBED LEARNING OUTCOME	7.CC.3.2.	Explain and justify mathematical ideas and decisions
PRESCRIBED LEARNING OUTCOME	7.CC.3.3.	Communicate mathematical thinking in many ways
CURRICULUM ORGANIZER / COURSE	BC.MA.7. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	7.CC.4.	Connecting and reflecting
PRESCRIBED LEARNING OUTCOME	7.CC.4.1.	Reflect on mathematical thinking
PRESCRIBED LEARNING OUTCOME	7.CC.4.2.	Connect mathematical concepts to each other and to other areas and personal interests
		British Columbia Curriculum Mathematics Grade 8 - Adopted: 2016
CURRICULUM ORGANIZER / COURSE	BC.MA.8. CC.	Curricular Competencies

PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	8.CC.1.	Reasoning and analyzing
PRESCRIBED LEARNING OUTCOME	8.CC.1.1.	Use logic and patterns to solve puzzles and play games
PRESCRIBED LEARNING OUTCOME	8.CC.1.2.	Use reasoning and logic to explore, analyze, and apply mathematical ideas
PRESCRIBED LEARNING OUTCOME	8.CC.1.6.	Model mathematics in contextualized experiences
CURRICULUM ORGANIZER / COURSE	BC.MA.8. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	8.CC.2.	Understanding and solving
PRESCRIBED LEARNING OUTCOME	8.CC.2.1.	Apply multiple strategies to solve problems in both abstract and contextualized situations
PRESCRIBED LEARNING OUTCOME	8.CC.2.2.	Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving
PRESCRIBED LEARNING OUTCOME	8.CC.2.3.	Visualize to explore mathematical concepts
PRESCRIBED LEARNING OUTCOME	8.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.8. CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	8.CC.3.	Communicating and representing

PRESCRIBED LEARNING OUTCOME	8.CC.3.2.	Explain and justify mathematical ideas and decisions

PRESCRIBED 8.CC.3.3. Communicate mathematical thinking in many ways LEARNING OUTCOME

CURRICULUM ORGANIZER / COURSE	BC.MA.8. CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	8.CC.4.	Connecting and reflecting
PRESCRIBED LEARNING OUTCOME	8.CC.4.1.	Reflect on mathematical thinking

PRESCRIBED	8.CC.4.2.	Connect mathematical concepts to each other and to other areas and personal interests
LEARNING		
OUTCOME		

British Columbia Curriculum Science Grade 7 - Adopted: 2016

CURRICULUM ORGANIZER / COURSE	BC.SC.7. CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECT AT ION / SUB ORGANIZER	7.CC.2.	Planning and conducting
PRESCRIBED LEARNING OUTCOME	7.CC.2.3.	Observe, measure, and record data (qualitative and quantitative), using equipment, including digital technologies, with accuracy and precision

	BC.SC.7. CC.	Curricular Competencies
PRESCRIBED LEARNING OUTCOME / ORGANIZER		Students are expected to be able to do the following
EXPECTATION / SUB ORGANIZER	7.CC.5.	Applying and innovating

7.CC.5.1. Contribute to care for self, others, community, and world through personal or collaborative approaches

PRESCRIBED LEARNING OUTCOME	7.CC.5.2.	Co-operatively design projects
PRESCRIBED LEARNING OUTCOME	7.CC.5.3.	Transfer and apply learning to new situations
PRESCRIBED LEARNING OUTCOME	7.CC.5.4.	Generate and introduce new or refined ideas when problem solving
CURRICULUM ORGANIZER / COURSE	BC.SC.7. CC.	Curricular Competencies

Students are expected to be able to do the following

British	Columbia	Curriculum

7.CC.6.1. Communicate ideas, findings, and solutions to problems, using scientific language, representations, and digital

Science

Grade 8 - Adopted: 2016

CURRICULUM ORGANIZER / COURSE	BC.SC.8. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to be able to do the following:
EXPECT AT ION / SUB ORGANIZER	8.CC.2.	Planning and conducting
PRESCRIBED LEARNING	8.CC.2.3.	Observe, measure, and record data (qualitative and quantitative), using equipment, including digital technologies, with accuracy and precision

CURRICULUM
ORGANIZER /
COURSEBC.SC.8.
CC.Curricular CompetenciesPRESCRIBED
LEARNING
OUT COME /
ORGANIZERStudents are expected to be able to do the following:EXPECT ATION
/ SUB
ORGANIZER8.CC.5.Applying and innovating

PRESCRIBED 8.CC.5.1. Contribute to care for self, others, community, and world through personal or collaborative approaches LEARNING

OUTCOME

PRESCRIBED

EXPECTATION

PRESCRIBED

LEARNING

OUTCOME

7.CC.6.

Communicating

technologies as appropriate

LEARNING OUTCOME / ORGANIZER

/ SUB ORGANIZER

PRESCRIBED LEARNING OUTCOME	8.CC.5.2.	Co-operatively design projects
PRESCRIBED LEARNING OUTCOME	8.CC.5.3.	Transfer and apply learning to new situations
PRESCRIBED LEARNING OUTCOME	8.CC.5.4.	Generate and introduce new or refined ideas when problem solving
CURRICULUM	BC SC 8	Curricular Competencies
	CC.	
ORGANIZER /		Students are expected to be able to do the following:
ORGANIZER / COURSE PRESCRIBED LEARNING OUTCOME /	cc.	