Main Criteria: Forward Education

Secondary Criteria: British Columbia Curriculum

Subjects: Mathematics, Science, Technology Education

Grades: 5, 6, Key Stage 2

Forward Education

How Wind Turbines Capture Kinetic Energy

British Columbia Curriculum Mathematics

Grade 5 - Adopted: 2016

		Grade 5 - Adopted: 2016
CURRICULUM ORGANIZER / COURSE	BC.MA.5. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / 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 OUT COME I 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.2.3.	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 OUT COME / ORGANIZER		Students are expected to be able to do the following:

EXPECT ATION / 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 OUT COME / 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
CURRICULUM ORGANIZER / COURSE	BC.MA.5. C.	Content
PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to know the following:

EXPECTATION / 5.C.8.

Addition and subtraction facts to 20 (extending computational fluency)

SUB ORGANIZER

British Columbia Curriculum Mathematics

Grade 6 - Adopted: 2016

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	BC.MA.6. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	6.CC.1.	Reasoning and analyzing

PRESCRIBED LEARNING

6.CC.1.1. Use logic and patterns to solve puzzles and play games

OUTCOME

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
PRESCRIBED LEARNING OUT COME I ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	6.CC.2.	Understanding and solving
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.2.4.	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
PRESCRIBED LEARNING OUT COME I ORGANIZER		Students are expected to be able to do the following:
EXPECTATION / SUB ORGANIZER	6.CC.3.	Communicating and representing
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 I 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

British Columbia Curriculum Science

		Science Grade 5 - Adopted: 2016
CURRICULUM ORGANIZER I COURSE	BC.SC.5. BI.	
PRESCRIBED LEARNING OUTCOME / ORGANIZER	5.Bl.3.	Machines are devices that transfer force and energy.
CURRICULUM ORGANIZER / COURSE	BC.SC.5. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / 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		Students are expected to be able to do the following

CURRICULUM ORGANIZER / COURSE	BC.SC.5. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / 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.5.2.	Co-operatively design projects
PRESCRIBED	5.CC.5.3.	Transfer and apply learning to new situations

LEARNING OUTCOME PRESCRIBED LEARNING

OUTCOME

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

	BC.SC.5. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME I 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 OUT COME / ORGANIZER		Students are expected to know the following

EXPECTATION / 5.C.3. Properties of simple machines and their force effects

SUB ORGANIZER

	BC.SC.5. C.	Content
PRESCRIBED LEARNING OUT COME I ORGANIZER		Students are expected to know the following
EXPECTATION / SUB ORGANIZER	5.C.4.	Machines

PRESCRIBED

5.C.4.1. Constructed

LEARNING OUTCOME

British Columbia Curriculum Science

Grade 6 - Adopted: 2016

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	BC.SC.6. CC.	Curricular Competencies
PRESCRIBED LEARNING OUT COME / 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
PRESCRIBED LEARNING OUT COME I 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.5.2.	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

OR		BC.SC.6. CC.	Curricular Competencies
LE.	ESCRIBED ARNING IT COME / RGANIZER		Students are expected to be able to do the following
I S	PECTATION UB RGANIZER	6.CC.6.	Communicating

PRESCRIBED

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