



The Royal Agricultural Winter Fair provides rich learning experiences to enhance learning opportunities that aligns with different subjects and strands of the Ontario Curriculum.

Ontario Curriculum Connections - Grades 9-12

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Grade 9

Subject: Science

Potential experiential opportunities supporting the overall expectations in Grade 9 students:

Grade 9	Career Exploration	A2. identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
	Biology: Sustainable Ecosystems	B1. assess the impact of human activities on the sustainability of terrestrial and/or aquatic ecosystems and evaluate the effectiveness of courses of action intended to remedy or mitigate negative impacts.
		B2. investigate factors related to human activity that affect terrestrial and aquatic ecosystems and explain how they affect the sustainability of these ecosystems.
		B3. demonstrate an understanding of the dynamic nature of ecosystems, particularly in terms of ecological balance and the impact of human activity on the sustainability of terrestrial and aquatic ecosystems.

Grade 9-10

Subject: Social Sciences and Humanities

Family Studies – Food and Nutrition

Potential experiential opportunities supporting the overall expectations in Grade 9- 10 students:

Grade 9-10	Research and Inquiry Skills	A1. Exploring
		A2. Investigating
		A3. Processing Information
		A4. Communicating and Reflecting.
	Nutrition and Health	B1. Canada’s Food Guide: demonstrate an understanding of the nutritional and health recommendations in Canada’s Food Guide.
		B2. Eating Patterns: demonstrate an understanding of eating patterns that contribute to optimal physical health.
	Food Choices	C1. Food Needs.
		C2. Influences on Food Choices.
Local and Global Foods	D1. Availability of Food.	



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		D2. Food and Environmental Responsibility.
		D3. Food Security
	Food Preparation Skills	E1. Kitchen Safety.
		E2. Food Safety.
		E3. Food Preparation.
		E4. Kitchen Literacy and Numeracy.

Grade 9-12

Subject: Healthy Active Living Education

Potential experiential opportunities supporting the overall expectations in Grade 9-12 students:

Grade 9-12	Healthy Living/Healthy Eating	C1. Understanding Health Concepts
		C2. Making Healthy Choices
		C3. Making Connections for Healthy Living

Grade 9-12

Subject: English

Potential experiential opportunities supporting the overall expectations in Grade 9-12 students:

Grade 9-12	Oral Communication	1. Listening to Understand.
		2. Speaking to Communicate.
		3. Reflecting on Skills and Strategies.
	Reading	1. Reading for Meaning.
		2. Understanding Form and Style.
		3. Reading With Fluency
	Media Studies	1. Understanding Media Texts.
		2. Understanding Media Forms, Conventions, and Techniques.
		3. Creating Media Texts.
4. Reflecting on Skills and Strategies.		

Grade 10

Subject: Science

Potential experiential opportunities supporting the overall expectations in Grade 10 students:

Grade 10	Career Exploration	A2. identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
	Biology	B1. evaluate the importance of medical and other technological developments related to systems biology, and analyse their societal and ethical implications.
		B2. investigate cell division, cell specialization, organs, and systems in animals and plants, using research and inquiry skills, including various laboratory techniques.
		B3. demonstrate an understanding of the hierarchical organization of cells, from tissues, to organs, to systems in animals and plants.

Grade 11

Subject: Biology

Potential experiential opportunities supporting the overall expectations in Grade 11 students:

Grade 11	Career Exploration	A2. identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
	Diversity of Living Things	B1. analyze the effects of various human activities on the diversity of living things.
		B2. investigate, through laboratory and/or field activities or through simulations, the principles of scientific classification, using appropriate sampling and classification techniques.
		B3. demonstrate an understanding.
	Genetic Processes	D1. evaluate the importance of some recent contributions to our knowledge of genetic processes, and analyse social and ethical implications of genetic and genomic research
		D2. investigate genetic processes, including those that occur during meiosis, and analyse data to solve basic genetics problems involving monohybrid and dihybrid crosses;
D3. demonstrate an understanding of concepts, processes, and technologies related to the transmission of hereditary characteristics.		



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Grade 10	Animals: Structure and Functions	E3. demonstrate an understanding of animal anatomy and physiology, and describe disorders of the respiratory, circulatory, and digestive systems.
	Plants: Anatomy, Growth and Function	F1. evaluate the importance of sustainable use of plants to Canadian society and other cultures;
		F2. investigate the structures and functions of plant tissues, and factors affecting plant growth.
	F3. demonstrate an understanding of the diversity of vascular plants, including their structures, internal transport systems, and their role in maintaining biodiversity.	

Grade 11

Subject: Social Sciences and Humanities

Family Studies – Food and Culture

Potential experiential opportunities supporting the overall expectations in Grade 11 students:

Grade 11	Research and Inquiry Skills	A1. Exploring.
		A2. Investigating.
		A3. Processing Information.
		A4. Communicating and Reflecting.
	Culture, Foods and Food Practices	B1. Food Choices
		B2. Food Guidelines.
	Foods and Flavours	C1. Food Availability
		C2. Sources of Food
	Food Preparation Skills	E1. Kitchen Safety.
		E2. Food Safety.
		E3. Food Preparation.
		E4. Kitchen Literacy and Numeracy.

Grade 11

Subject: Environmental Science

Potential experiential opportunities supporting the overall expectations in Grade 11 students:

Grade 11	Career Exploration	A2. identify and describe careers related to the fields of science under study, and describe contributions of scientists, including Canadians, to those fields
	Sustainable Agriculture	D1. evaluate the impact of agricultural and forestry practices on human health, the economy, and the environment.
		D2. investigate conditions necessary for plant growth, including the soil components most suitable for various species, and various environmentally sustainable methods that can be used to promote growth.
		D3. demonstrate an understanding of conditions required for plant growth and of a variety of environmentally sustainable practices that can be used to promote growth.

Grade 12

Subject: Social Sciences and Humanities

Family Studies – Food and Healthy Living

Potential experiential opportunities supporting the overall expectations in Grade 12 students:

Grade 12	Research and Inquiry Skills	A1. Exploring.
		A2. Investigating.
		A3. Processing Information.
		A4. Communicating and Reflecting.
	Nutrition and Health	B1. Nutrients
		B2. Food Guides
		B3. Energy Balance
		B4. Nutritional Status
	Eating Patterns and Trends	C1. Nutrition throughout the Lifespan
		C2. Nutrition and Disease
		C3. Trends and Patterns in Food and Nutrition
	Local and Global Issues	D1. Food Security.
		D2. Food Production and Supply.
		D3. Food Production and the Environment
	Food Preparation Skills	E1. Kitchen Safety.
		E2. Food Safety.
E3. Food Preparation.		

Grade 12

Subject: Biology

Potential experiential opportunities supporting the overall expectations in Grade 12 students:

Grade 12	Career Exploration	A2. identify and describe careers related to the fields of science under study, and describe contributions of scientists, including Canadians, to those fields
	Molecular Genetics	D3. demonstrate an understanding of concepts related to molecular genetics, and how genetic modification is applied in industry and agriculture.
	Population Dynamics	F1. analyze the relationships between population growth, personal consumption, technological development, and our ecological footprint, and assess the effectiveness of some Canadian initiatives intended to assist expanding populations;

Grade 12

Subject: Science

Potential experiential opportunities supporting the overall expectations in Grade 12 students:

Grade 12	Career Exploration	A2. identify and describe careers related to the fields of science under study, and describe contributions of scientists, including Canadians, to those fields
	Nutritional Science	D1. assess how personal and societal factors affect eating behaviors, and evaluate the social and economic impact of the use of non-nutrient food additives.
		D2. investigate chemical components of and energy in food, and the processes by which food is digested.
D3. demonstrate an understanding of chemical components of and energy in food, and the processes by which food is digested.		