- evaluate Canada's effectiveness and commitment in responding to global challenges (e.g., climate change,) and promoting international well-being (e.g., humanitarian aid, human rights advocacy, peacekeeping)
- analyze the potential impact on the global community of their personal choices (e.g., in music, clothes, food, work, recreation)
- compare the "ecological footprint" of a typical Canadian with those of people from other countries

Introduction to Business

Business Fundamentals

- explain the concepts of ethics and social responsibility as they apply to business (e.g., workplace safety, antidiscrimination issues, accessibility issues for people with disabilities, environmental responsibility, respect for labour laws, fair trade)
- explain controversial business issues from a local, national, and international perspective (e.g., accounting scandals, environmental impact of some business practices, insider trading, fraud)

ON 10

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Science (Academic)

Earth and Space Science: Weather Dynamics

- explain the role of weather dynamics in environmental phenomena and consider the consequences to humans of changes in weather (e.g., the role of weather in air pollution, acid rain, global warming, and smog; the fact that smog aggravates asthma)

Science (Applied)

Earth and Space Science: Weather Systems

- identify the impact of climate change on economic, social, and environmental conditions

ON 11

Chemistry (University Prep)

Gases and Atmospheric Pressure

- analyze the cumulative effects of human activities and technologies on air quality, and describe some Canadian initiatives to reduce air pollution, including ways to reduce their own carbon footprint
- analyze the effects on air quality of some technologies and human activities (e.g., smelting; driving gas-powered vehicles), including their own activities, and propose actions to reduce their personal carbon footprint

Environmental Science (University and College Prep)

Scientific Solutions to Contemporary Environmental Challenges

- analyze, on the basis of research, social and economic issues related to a particular environmental challenge (e.g., melting of the polar ice cap) and to efforts to address it
- analyze ways in which societal needs or demands have influenced scientific endeavours related to the environment (e.g., research into alternative energy sources in response to demands to address the impact on climate change of burning fossil fuels)
- use a research process to locate a media report on a contemporary environmental issue (e.g., climate change, melting of the polar ice cap, deforestation), summarize its arguments, and assess their validity from a scientific perspective
- explain how new evidence affects scientific knowledge about the environment and leads to modifications of theory and/or shifts in paradigms (e.g., the impact of evidence of the effects of carbon dioxide emissions on theories of global warming)

Human Health and the Environment

- analyze longitudinal data to determine the impact of various environmental factors that affect human health (e.g., air temperature, atmospheric greenhouse gases, contaminants in drinking water)

Environmental Science (Workplace Prep)

Human Impact on the Environment

- propose possible solutions, on the basis of research, to a current practical environmental problem that is caused, directly or indirectly, by human activities
- analyze the risks and benefits to the environment of human recreational activities and the leisure industry
- explain the concept of a "carbon footprint" and how it is used to measure the impact on the environment of a range of human activities

Physical Geography: Patterns, Process, and Interactions (University and College Prep)

Human-Environment Interactions

- evaluate the impact on a selected region of human-caused changes in atmospheric conditions (e.g., acid precipitation, smog, ozone depletion)
- evaluate the impact of human activities (e.g., deforestation, the burning of fossil fuels, fertilizer use) on natural cycles (e.g., the carbon, nitrogen, or phosphorus cycles)

Global Connections

- analyze the effects that human activities and/or natural events in a region or country can have on another part of the world (e.g., downstream impacts of dams, climatic effects of volcanic eruptions, acid precipitation or ozone layer depletion from the burning of fossil fuels) *Understanding and Managing Change*
- explain the relationship between natural variations in global climate and glacial movements
- distinguish natural short-term variability from long-term trends in historical climate data
- explain the potential effects of long-term climate change (e.g., global warming) on different parts of the world, including their local community