



# Lesson Plan: Careers in Waste Management, Grade 9 Issues in Canadian Geography (CGC1D and CGC1P)

## Introduction

Durham Region consists of eight area municipalities in both urban and rural settings. The Region of Durham (Region) is responsible for the final disposal of waste from all eight area municipalities. Students will identify which eight area municipalities make up the Region of Durham and begin to explore the Region's roles and responsibilities in relationship to solid waste management. Students will begin to think about the connection between geography, their interests, and career opportunities in waste management.

## Learning Objectives

1. Use spatial technology to identify the eight area municipalities that make up the region of Durham
2. Navigate the Region's Careers and Volunteering website
3. Explore how a background in geography an asset to a career in solid waste management
4. Make a connection between personal interest and opportunities to apply those interests to careers in the waste management industry

## Resources Provided

- [Durham Region Waste Management Website](#)
- [Durham Region Careers and Volunteering Website](#)
- Durham Region Waste Management Career Videos:
  - [By-law Officer](#)
  - [Waste Disposal Clerk](#)
  - [Policy and Planning](#)
  - [Contract Administration](#)
  - [Landfills Management](#)

## Questions

1. What is solid waste management?
2. What eight area municipalities make up the Region of Durham?
3. Who is responsible for waste once it is set out at the curb?
4. How could physical geography affect waste management?
5. What type of jobs are available in residential solid waste management?
6. How might a background in geography an asset to a career in solid waste management?

## Activity

1. Students will individually use spatial technology to identify the eight area municipalities that make up the Region of Durham.

## The Regional Municipality of Durham - Waste Management Services

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2. Student will then navigate to the Region's website to find the Waste Management page and use this resource to create a list of at least five jobs in waste management and explain how a background in geography an asset to each job might be. Students may view the careers in waste management videos provided as a resource.
3. Students will then choose one job from their list and explain how the job aligns with their personal interests.
4. Students will search what post-secondary education (if any) might be required for their selected job.
5. Once completed, each student will present the following to the class:
  - a. What job did they select?
  - b. How would a background in geography an asset to the job?
  - c. How does the job align with their personal interests?
  - d. What post-secondary (if any) might be required for their selected job?

## Summary

Waste management is an important and ever evolving industry. There are many career opportunities to choose from - from the creation of the waste to its final disposal, as well as the planning, legal and regulatory frameworks required to manage solid waste materials properly and safely. Waste needs to be managed responsibly to protect the environment and human health and how we choose to manage waste today impacts the future.

## Expanded Curriculum Connections

The Ontario Curriculum, Grades 9 and 10: Canadian and World Studies, 2018, (revised)

### Issues in Canadian Geography, Grade 9, Academic (CGC1D)

#### A. Geographic Inquiry and Skill Development

- A1. Geographic Inquiry: use the geographic inquiry process and the concepts of geographic thinking when investigating issues relating to Canadian geography
- A2. Developing Transferrable Skills: apply in everyday contexts skills, including spatial technology skills, developed through the investigation of Canadian geography, and identify some careers in which a background in geography might be an asset

#### C. Managing Canada's Resources and Industries

- C1. The Sustainability of Resources: analyse impacts of resource policy, resource management, and consumer choices on resource sustainability in Canada

#### E. Liveable Communities

- E1. The Sustainability of Human Systems: analyse issues relating to the sustainability of human systems in Canada
- E2. Impacts of Urban Growth: analyse impacts of urban growth in Canada

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## Issues in Canadian Geography, Grade 9 (CGC1P)

### A. Geographic Inquiry and Skill Development

- A1. Geographic Inquiry: use the geographic inquiry process and the concepts of geographic thinking when investigating issues relating to Canadian geography
- A2. Developing Transferable Skills: apply in everyday contexts skills, including spatial technology skills, developed through the investigation of Canadian geography, and identify some careers in which a background in geography might be an asset

### C. Managing Canada's Resources and Industries

- C1. Managing Resources: assess the influence of personal choices and community actions on the use of natural resources in Canada

### E. Livable Communities

- E1. Sustainable Communities: identify factors that affect the sustainability of communities, and describe strategies for improving their sustainability
- E2. Impacts of Land Use: analyse impacts of land use in Canada on communities and the natural environment