



# Lesson Plan: Integrated Waste Management, Grade 12 Urban Patterns and Population Issues (CGU4M)

## Introduction

As Durham continues to grow and change, we want to ensure our waste services evolve to meet these needs and challenges. Students will learn about Durham Region's Waste Management programs and the importance of waste management planning. Students will focus on maximizing diversion of waste from disposal for the next 20 years by developing a Long-term Waste Plan. Students will have an opportunity to discuss and make connections to waste disposal, their actions and the environment.

## Learning Objectives

1. Demonstrate an understanding of integrated waste management
2. Describe actions that individuals can take to contribute to the sustainability of their own community
3. Identify waste management objectives and goals
4. Evaluate waste management options
5. Create a Long-term Waste Management Plan / Waste Plan

## Resources Provided (located in the resource folder)

- [Durham Region Long-term Waste Management Plan 2022-2040](#)
- Infographics:
  - How does Durham Region currently manage waste?
  - Waste hierarchy
  - What is a circular economy?

## Questions

1. Why is there so much household waste?
2. What influences purchasing choices?
3. How can we use purchasing power to reduce waste?
4. How can we change our purchasing habits to reduce waste?

## Activity

- Provide students with the Durham Region Long-term Waste Management Plan 2020 – 2040.
- Have students create a Long-term Waste Management Plan / Waste Plan.
  - The Long-term Waste Management Plan / Waste Plan will:
  - Focus on maximizing diversion of waste from disposal for the next 20 years.
  - Outline guiding principles, vision, and objectives for reducing waste, increasing waste diversion, and contributing to a Circular Economy.
  - Include goals for meeting these objectives.

## The Regional Municipality of Durham - Waste Management Services

If this document is required in an accessible format, please contact [schoolprograms@durham.ca](mailto:schoolprograms@durham.ca)

## Summary

Waste management programs are an important tool to help reduce our impacts on the environment. Students are encouraged to continue to think about how waste diversion can be improved, their personal impact on the environment, and make changes to their habits to support waste reduction.

## Curriculum Connections Expanded

The Ontario Curriculum, Grades 11 and 12: Canadian and World Studies, 2015 (revised)

### World Geography: Urban Patterns and Population Issues, Grade 12 (CGU4M)

#### C. Sustainability and Stewardship of Natural Resources

- C1. Working towards Sustainability: analyse impacts of human activity settlements on the environment and assess the effectiveness of solutions to these impacts in selected ecumenes
- C2. Stewardship: assess ways in which stewardship practices can contribute to the sustainability of human settlement