Electronic Waste
Teacher Guide

Electronic Waste is a *CS and Society* resource which aims to:

- discuss the causes and effects of electronic waste, and
- empower students to make choices that help reduce the amount of electronic waste.

The resource is divided into four sections:

DIP

The DIP section is designed to introduce the topic, discover what students already know, and encourage curiousity.

This section contains a definition of electronic waste and some interesting statistics, as well as a kahoot activity to explore what students know about electronic waste.

- Kahoot activity: rebrand.ly/kahoot-electronic-waste
- (Optional) Paper kahoot: kahootElectronicWaste.pdf

DINE

The DINE section is designed to introduce new concepts and explore content.

This section contains a brainstorming task, a video about planned obsolescence, and some discussion questions. A second video follows electronic devices that are dropped off for recycling to see where they actually end up. This section also contains a project where students are asked to select a hazardous material found in electronics and create a game to educate their classmates about the environmental and health implications of using this material.

- (Optional) Online brainstorming tools: mindmeister.com, mindmup.com
- Planned Obsolescence video: rebrand.ly/planned-obsolescence
- The Circuit video: rebrand.ly/the-circuit
- Blank summary: summaryBlankTheCircuit.pdf
- Fillable summary: summaryFillableTheCircuit.pdf
- Game websites: flippity.net, kahoot.com, wisc-online.com/gamebuilder, educaplay.com, jeopardylabs.com, educandy.com

DIGEST

The DIGEST section is designed to make learning personal. It challenges students to reflect, internalize, and act.

This section asks students to think about ways they can reduce, reuse, and recycle their electronics.

- (Optional) Reduce Reuse Recycle tracking sheet: Google Sheet

DESSERT

The DESSERT section is designed for those who want more. It may contain links to additional videos, articles, and websites, or include some enrichment challenges.

This section contains links to more information, and a website to find electronic recycling centres near you.

- Global E-Waste Monitor: ewastemonitor.info
- The WEEE Man: weeeman.org
- The World Counts: rebrand.ly/the-world-counts
- World Loop: worldloop.org/e-waste
- Recycle My Electronics: recyclemyelectronics.ca

Visit cemc.uwaterloo.ca/resources/cs-and-society.html for more *CS and Society* resources.