

# Unit 4: Looping

Content Area: **Business**  
Course(s): **Generic Course**  
Time Period: **Semester 1 & 2**  
Length: **3 weeks**  
Status: **Published**

## Standards

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TECH.8.2.12.A.CS1	The characteristics and scope of technology.
TECH.8.2.12.A.CS2	The core concepts of technology.
TECH.8.2.12.C.CS1	The attributes of design.
TECH.8.2.12.E.3	Use a programming language to solve problems or accomplish a task (e.g., robotic functions, website designs, applications, and games).

## Enduring Understanding

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All programming languages have statements that help you define the flow of control of a program.

Repetition allows for solving more robust problems.

## Essential Questions

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When would a programmer need to change the flow of control of a program?

When would a programmer opt to use a repetition statement?

## Knowledge and Skills

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Use the increment and decrement operators

Use while, do-while and for statements

## Transfer Goals

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Students will be able to apply their knowledge of a computer program's flow of control to any high level computer programming language.

Deconstructing a problem into components allows you to tackle complicated tasks.

## **Resources**

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CS Awesome curriculum and online textbook with interactive activities

Repl.it Teams for Education for writing programs

Teacher created Computer Science Google site