Unit 4: Looping

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

Standards

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

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

Repitition allows for solving more robust problems.

Essential Questions

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

Use the increment and decrement operators

Use while, do-while and for statements

Transfer Goals

Students will be able to apply their knowlege 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

CS Awesome curriculum and online textbook with interactive activities

Repl.it Teams for Education for writing programs

Teacher created Computer Science Google site