# Innovation

## Key Vocabulary

**Tier 1:** design, program, test, selection, evaluate

**Tier 2:** implement, algorithm, setup, outcome, share

**Tier 3:** debug, condition, constructive

## Prior Knowledge

Year 1– Understand what algorithms are, how they are implemented as programs on digital devices.

Year 2 - Understand what algorithms are; how they are implemented as programs on digital devices.

Year 3 – Design, write and debug programs that accomplish specific goals.

Year 4 – Use logical reasoning to explain how some simple algorithms work, and to detect and correct errors in algorithms and programs.

## Future Knowledge

Year 6—Select, use and combine a variety of software on a range of digital devices.
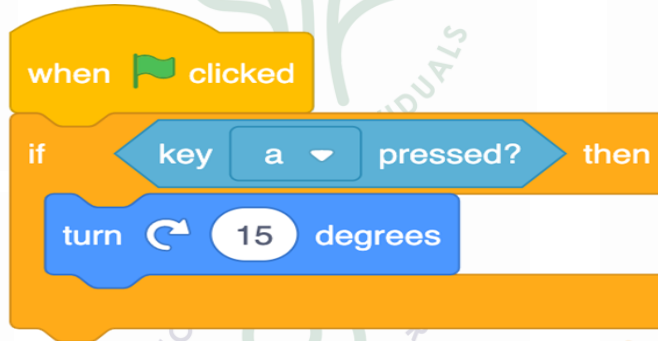
## My Component Knowledge:

**Lesson 1:** I can identify conditions in a program.

**Lesson 2:** I can create a program that uses selection to produce different outcomes.

**Lesson 3:** I can explain the meaning of program flow.

**Lesson 4:** I can use a design a format to outline my project.

**Lesson 5:** I can implement and test my algorithm.

**Lesson 6:** I can extend and evaluate my program.

## My Composite Knowledge:

I can use sequence, selection, and repetition in programs; work with variables and various forms of input and output.

## My Powerful Knowledge:

I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

What is selection?

What is a variable and how does it impact your program?