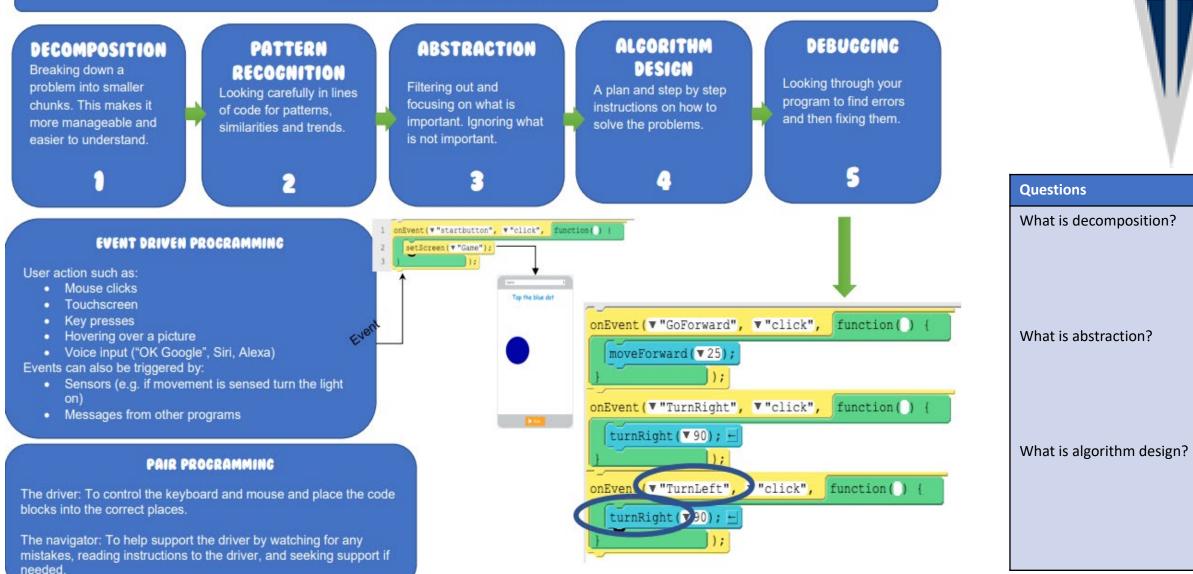
# The Robert Napier School

# COMPUTATIONAL THINKING



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### USER INPUT

Text boxes - allowing the user to input a string.

Checkboxes - allowing for the user to indicate a yes or no response.

Button – linked to an event that will capture and process the data when it is clicked

#### SELECTION - BOOLEAN LOGIC (IF/ELSE/ELIF)

Selection is the process of making a decision based on a condition. Selection allows you to add more avenues and routes to your coding.

#### if (score > 10)

setText( # "feedback label", "Great Work"); else if ( (score > 6) ) setText( "feedback label", "Not Bad"); setText( \* "feedback label", "Hard Luck"); 1-145

## EVALUATION

Verb

"To judge or calculate the quality, importance, amount, or value of something"

#### GETTEXT

getText ("id") is a built-in subroutine that collects the text entered into a textbox: "id" is to be replaced with the name given to the text box.

var x = getText(\*"id");

### EVENT HANDLER

You can use an event handler to determine when to collect the data and what to do with it once it has been collected and linked with a variable.

> Event(\*\*login\*, \*\*click\*, function() ( var username = getText(\*"username");

#### VARIABLE (VAR)

Sometimes we need computers to remember the information we give it and that it calculates during programs. A variable can be thought of as a box that the computer can use to store a value. The value held in that box can change or 'vary'. A program can use as many variables as it needs it to.

A variable can store letters, integers (numbers) or text.

#### For example:

>>> money in bank = 20 >>> total money = money in bank + 10 >>> print(total money) 30



#### Questions

What is getText?

## What is a variable?

What does the term 'selection' mean?

# GRAPHICAL USER INTERFACE (GUI)

Code Design Data	G Design Toolbox O	Workspace
screent ‡	Trag the elements into your appl	Click on an element or choose it from the dropdown below to edit its propertie PROPERTIES EVENTS