Year 9 spring 2 Computing: Physical computing

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A) Key knowledge		B) Key knowledge		C) Key knowledge		D) Key knowledge	
Buttons: input	Capture user input to make things happen	Compass: input	Find magnetic north or measure the strength of magnetic fields	The flash button	The Flash button translates your program and transfers it to the micro:bit.	.read_digital()	The read_digital method returns either 0 or 1, depending on the voltage detected on the pin.
LED display: output	Show pictures, words, and numbers	Accelero meter: input	Detect gestures and measure movement in 3 dimensions	Randint	The randint function, imported from the random module, returns a random integer within a specified range	.write_digital()	The write_digital method turns the voltage on the pin on or off, depending on the value of its argument, which can be either 0 or 1.
Light sensor: input	Measure how much light is falling on the micro:bit	Radio: communic ation i/o	Communicate with micro:bits and other devices	The condition in the while loop	The condition in the while loop is always True: the statements in the while block with be repeated forever	radio.receive()	The receive method returns the next incoming message on the message queue. It returns None if there are no pending messages.
GPIO pins: input and output	Connect headphones, sense touch, and add other electronics	Display	display represents the micro:bit's 5×5 LED display.	.read_light_l evel()	.read_light_level() returns a value that is assigned to the light variable.	Decompose	Break down your project into smaller tasks. If possible, work on them in parallel.
Temperat ure sensor: input	Measure how warm the environment is	Scroll	scroll is an action you can perform on the display.	GPIO	GPIO means General-Purpose Input Output	Test often	Whenever you make changes, test thoroughly. Only move on to the next step when you are sure what you have so far works.
Homework: How does a mobile computer receive input and provide output?		Homework: Describe any communication component on the micro:bit that allows it to communicate with other devices.		Homework: Describe a possible micro:bit project in three sentences.		Homework: Describe the difference between = and == in Python.	