Unit 2: Scripting

Lesson 3: The Game cycle

Activity 3 (10' minutes): Gap text

Fill the gaps with the words you've heard in the video.

Awake and Start are two functions that are called automatically when a script is loaded. Awake is called first, even if the script component is not enabled and is best used for setting up any references between scripts and initialisations.

Start is called after Awake, immediately before the first Update, but only if the script component is enabled. This means you can use Start for anything you need to occur when the script component is enabled.

Start and Awake are only called once in the lifetime of a script attached to a GameObject, so you cannot repeat the Start function by disabling and re-enabling a script.

Update it's called once per frame on every script that uses it. Almost anything that needs to be changed or adjusted regularly happens here: the movement of non-physics objects, simple timers and the detection of input, for example. Note that Update is not called on a regular timeline, if one frame takes longer to process than the next the time between Update calls will be different.

FixedUpdate is a similar function to Update but it has a few important differences. FixedUpdate is called on a regular timeline and will have the same time between calls. Immediately after FixedUpdate is called, any necessary physics calculations are made. As such anything that affects a rigidbody (meaning a physics object) should be executed in FixedUpdate rather than Update.