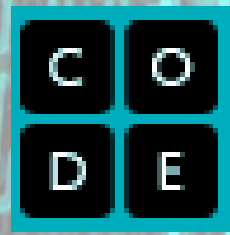


Coding Knowledge Organiser



We will be using code.org – Hour of Code (Course E)

Golden Vocabulary - Links to previous learning	
Algorithms	a sequence of instructions or a set of rules that are followed to complete a task.
sequence	the order of something happening
Repeat loops	A function in coding that repeats an algorithm without having to keep typing it
Logical reasoning	“sensible thinking” look at code step by step to either create or fix
repetition	doing the same thing more than once.
variables	part of coding that changes effected by something else

```

when run
  repeat 4 times
    do
      repeat 4 times
        do
          move forward by 100 pixels
          turn right by 90 degrees
        do
          jump forward by 50 pixels
    
```

```

when run
  move forward by 100 pixels
  turn right by 90 degrees
  move forward by 100 pixels
  turn right by 90 degrees
  move forward by 100 pixels
  turn right by 90 degrees
  move forward by 100 pixels
  turn right by 90 degrees
  
```

```

when down pressed
  move 10 pixels South
  
```

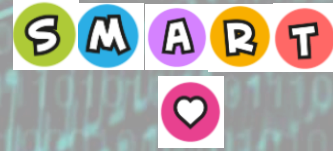
```

change counter by 1
  
```

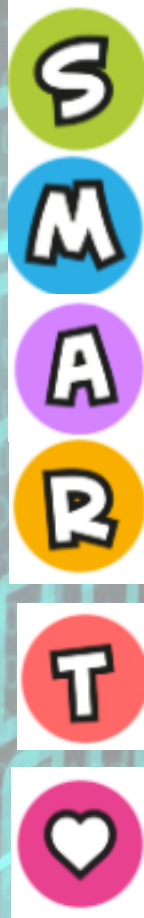
Vocabulary	
nested repeat loop	A repeat loop inside another repeat loop
Abstraction	Removing code that is not necessary to focus on code that is
pattern location	Finding patterns in your coding so you can use repeat loops
debug	Finding errors in coding to fix an issue
decomposing	Breaking down a problem into smaller parts
selection	A question in coding to decide what happens next
input	Data that a computer receives
output	Data that a computer sends
Functions	A piece of code with at least 1 input and an output
data representation	Computer data is represented in 1s and 0s (Binary)

E-Safety Knowledge Organiser

When using the internet we need to know how to be a digital citizen and understand how to use it responsibly and safely



Golden Vocabulary - Links to previous learning	
E-Safety	Rules on how to stay safe while using the Internet
Internet	A network of computers connected to each other around the world
Devices	The hardware that u=you use when using the Internet - phone, tablet, computer, laptop



S Keep your personal information safe. When chatting or posting online don't give away things like your full name, password or home address. Remember personal information can be seen in images and videos you share too.

M Meeting up with someone you only know online, even a friend of a friend, can be dangerous as this person is still a stranger. If someone you only know online ever asks you to meet up, for personal information or for photos/videos of you then tell an adult straight away and report them together on www.thinkuknow.co.uk

A Think carefully before you click on or open something online (e.g. links, adverts, friend requests, photos) as you never know where they may lead to or they may contain viruses. Do not accept something if you are unsure of who the person is or what they've sent you.

R You cannot trust everything you see online as some things can be out of date, inaccurate or not entirely true. To find reliable information compare at least three different websites, check in books and talk to someone about what you have found.

T Tell a trusted adult if something or someone ever makes you feel upset, worried or confused. This could be if you or someone you know is being bullied online. There are lots of people who will be able to help you like your teachers, parents, carers or contact Childline - 0800 11 11 or www.childline.org.uk

Heart Remember to always be smart with a heart by being kind and respectful to others online. Make the internet a better place by helping your friends if they are worried or upset by anything that happens online.

Vocabulary	
	S is for safe
	M is for Meet
	A is for accepting
	R is for reliable
	T is for tell
	Be SMART with a heart