Scratch Unit: Programming Computer Games

Lesson 4 - Support

What would the logical steps be?	5	6	9	17	25	42
E.gDivide number by 2.						
-If whole number then say, "Not prim	e."					
-If decimal then divide number by 3.						
-If whole number then say, "Not prim	e."					
-etc.						
A computer would use the modulo (mod) of a number (the remainder of a number when divided.) $14/3 = 4 r^2$						
So the mod of 14 is 2 (the remainder)						

This is an easy way to check if numbers can be divisible by other numbers. The computer can rule out all other numbers apart

How could we use an algorithm to check prime numbers up to 100?

from 1 and the number itself - i.e. a prime number.

How could we use an algorithm to check prime numbers? Discuss.

We can use the 'Sieve of Erathosthenes'! https://en.wikipedia.org/wiki/Sieve_of_Eratosthenes