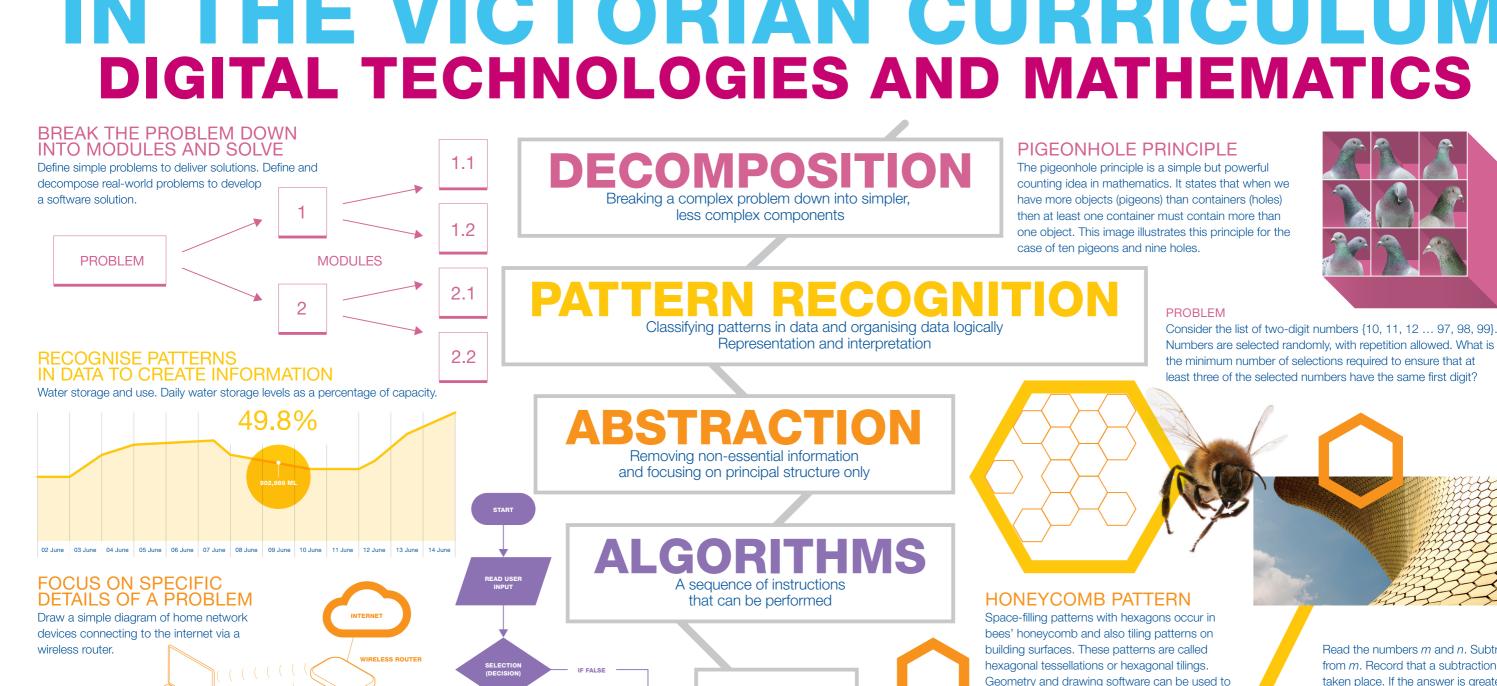
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If ... then

If ... then ... else

Repeat ... until

FLOWCHARTS OR

and iteration (repetition). Trace to

determine output. Code using a

Involves branching (selection or decisions) Case if

general-purpose programming language. For ... do

PSEUDOCODE

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DIVISION AS A REPEATED **SUBTRACTION**

Multiplication of positive integers can be considered as repeated addition. In a similar way division of a positive integer by a smaller positive integer can be considered as repeated subtraction.

Geometry and drawing software can be used to produce a hexagon and a honeycomb pattern.



Read the numbers m and n. Subtract nfrom *m*. Record that a subtraction has taken place. If the answer is greater than *n*, repeat the process subtracting *n* from the answer.

If the answer is less than *n*, record the answer as the remainder. Record the total number of times a subtraction has taken place: this as the number of times n goes into m.

For example, let m = 23 and n = 4. The result of dividing 23 by 4 is 5 with remainder 3.





