

Computational Thinking

An introduction with building bricks

Decomposition | Pattern recognition
Abstraction | Algorithmic thinking

Decomposition

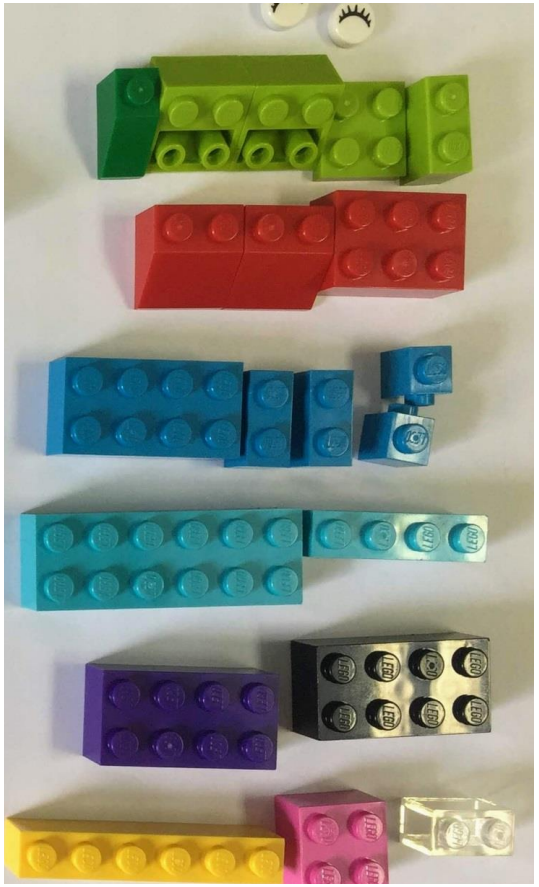
Break a complex problem into smaller parts. This makes it easier to solve.

With decomposition, each part can be worked on separately.



Pattern recognition

Recognize patterns and notice similarities. Grouping things by shared features helps us identify recurring characteristics and behaviours.



Abstraction

Focus on what matters for the problem and set aside irrelevant details.

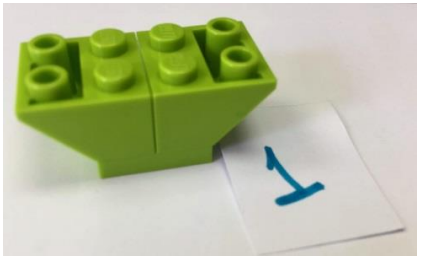
This helps us identify the essential information we need to find a solution.

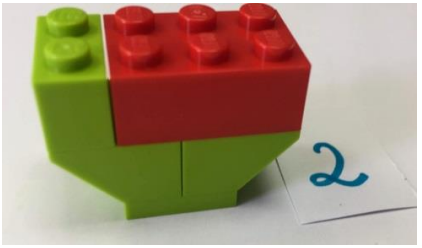


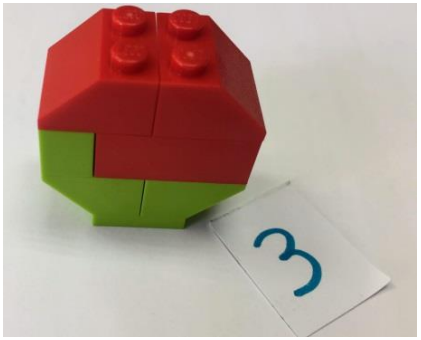
Algorithmic thinking

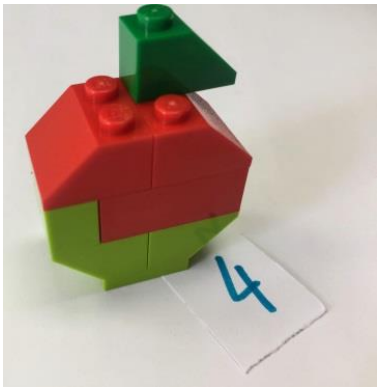
Develop and follow a series of ordered steps to solve a problem.

The order matters: each step helps us work towards the solution.









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