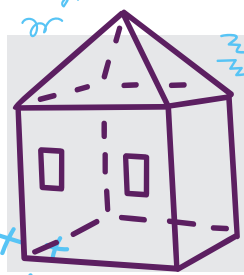




Decomposition

Breaking down into parts

Break it Down



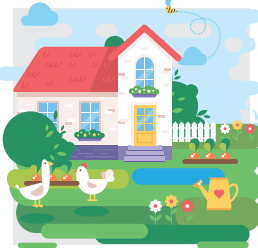
Activity

Ask your child to choose an item they can see. Ask them to sketch it and break it down by labelling as many different parts as possible. This can be run as a competition - who can break it down the most?

Learning

In computing decomposition allows us to break complex tasks into more manageable tasks. Here your child practises decomposing objects around them.

Design your ideal back garden



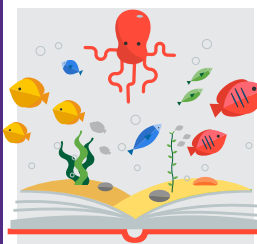
Activity

Ask your child to look at their own garden or think of a local green space and break it down into different parts. Grass, patio, decking, pond, vegetable patch. Get them to design their own perfect garden by sketching ideas for each part.

Learning

Here your child has made the task of designing a garden easier by breaking it down and looking at each section separately.

Comic Flick Book



Activity

With your child, cut, fold and staple paper into a little flick book. Ask them what they want to happen in their animation and together break this down into steps for the drawings on each page.

Learning

Here your child has decomposed the animation into a sequence of individual images. What other animations can your child create?

Design an App



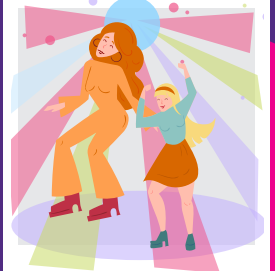
Activity

Ask your child to think up a new app. This could be a game, fitness or travel app for example. Ask them to create a design for the app by breaking it down and sketching out the different screens the user will see.

Learning

Decomposing the app down into the different screens allows your child to create a design to illustrate how their app would work.

Dodgy Dance Moves



Activity

With your child select a favourite party song which you can learn the dance to, such as the YMCA or Macarena. To learn the moves, break the song down into different sections, then look at the actions for each section.

Learning

Decomposing the dance sequence down into verse, chorus and then smaller chunks makes the task of learning the moves easier.