NETS / DEVELOPMENTS

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- 2. PYRAMIDS, CONES AND CUBOID NETS
- 3. CYLINDRICAL NETS AND TRIANGULAR PRISMS
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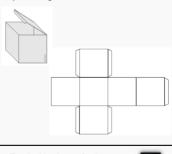
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WHAT ARE NETS / DEVELOPMENTS?

Look at a typical product on a supermarket shelf. It's packaging started life as a flat development / net, probably printed on a piece of card. It was then cut out, folded and glued to form the package. A simple net / development for a cube like package is seen below.

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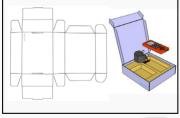


MOBILE PHONE NET / DEVELOPMENT FOLDED TO FORM THE PACKAGING

Often the packages are cuboid in shape as this means that they can be transported and stacked on shelves easily, efficiently using space.

Below is a 'development' / 'net' of the mobile phone packaging.

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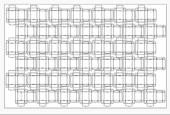
TESSELLATIONS

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The mobile phone packaging has been arranged on a large piece of card,as multiple nets, with very little space between each one.

This arrangement of shapes is called a tessellation. A Tessellation is sometimes called 'tiling'. This reduces waste when the nets are cut out.

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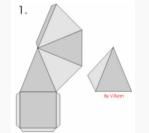




PYRAMIDS

This is a net / development of a **square pyramid**. The development gets its name from the square base. Tabs are positioned around the base and on the leading edge so that when the development is folded it can be glued in position.

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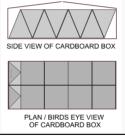
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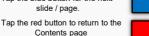


efficient shape to store in a cardboard box. Very little space is left between the individual pyramids. The square pyramids fit head to tail creating a strong structure. When in their cardboard box they form a strong unit, able to withstand drops and knocks.

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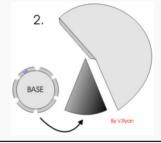


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Below, is the development of a cone. The flat development is part of a circle and a tab is added on the leading edge so that it can be glued to form the cone shape.

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CONES

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The cone net is a less efficient shape to store in a cardboard box. Some space is left unused when the cones are stacked. The cones fit head to tail creating a reasonably strong

head to tail creating a reasonably strong structure. The spaces that are left mean that the cardboard box can be damaged if dropped or knocked. inside.

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OF CARDBOARD BOX

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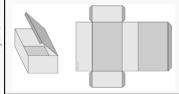
CUBOID - DEVELOPMENT / NET

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A cuboid is one of the most basic shapes for packaging. It is also one of the most common and most efficient. It can be manufactured easily as it is not complex and has straightforward folds.

A cuboid is similar to a cube. The edges of a cube are all the same, whereas a cubiod has some edges that vary in size.

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CUBOID - DEVELOPMENT / NET VRyen © www.lechnologystudent.com 2019 As normal, cardboard boxes are used to store

cuboid shaped packages whilst they are being transported to the shops.

transported to the snops.

This type of shape is extremely efficient as cuboids will fit perfectly into the right size of

cardboard box.

The cardboard boxes can be stored easily as they are a regular shape and they fit precisely into the storage area of vans and lorries.

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CYLINDRICAL NETS

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One of the most common of shapes is a cylinder (below). Tins are frequently used to contain food and drink products - these are cylinders.

















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TRIANGULAR PRISM AS A NET

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This is a typical triangular prism. This shape is occasionally used for packaging.

occasionally used for packaging.
A famous confectionery product is seen below, in three distinctive packages. However, each of the packages is a variation on a development / net called a triangular prism.
Another name for this type of shape is a pentahedron.

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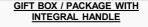








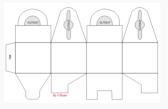




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SINGLE DRINKS CONTAINER



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PROJECT - FANTASY PAPER TOY CHARACTERS

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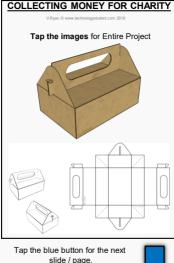
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SELF ASSEMBLY DECORATIONS

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