

DEVELOPMENTS

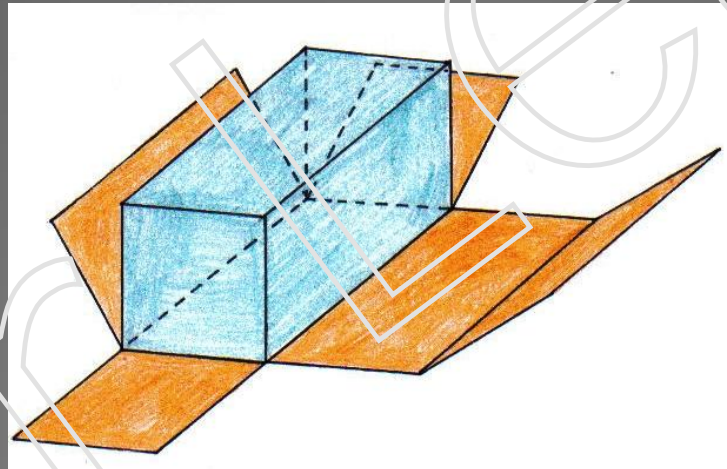
MARK

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SECY

WHAT IS A DEVELOPMENT?

- ▶ The development of a surface is that surface laid out on a single plane. Above you can see the surface development of a right cone, right cylinder and rectangular based prism. It is important to remember that all lines in in developments are true lengths and all surfaces are true shapes



WHEN AND WHERE ARE THEY USED?

- ▶ When it is possible to make an artefact from a single piece of material
- ▶ The manufacturing industry
- ▶ Things like:
 - ▶ Boxes (Cereal, chocolates, perfume, etc.)
 - ▶ Envelopes
 - ▶ Ducting
 - ▶ And many more..

What other items can you think of manufactured in this way?

WHY ARE DEVELOPMENTS USED?

- ▶ To use as little material as possible to make a object
- ▶ There is a minimum number of fixings required
- ▶ Is easily applied to a factory production line (as seen in video)
- ▶ Can be cut and produced by robotic equipment
- ▶ Environmentally friendly

ACTIVITY



Developments are used to make objects with a minimum amount of waste material

Using the A4 sheets and scissors given make envelopes with as little waste as you can

