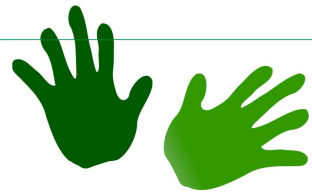


Investigation Hogwarts Castle

Things you will need:

- Design your bedroom at Hogwarts Castle
(see resources)



- Imagine you are going to build a model of Hogwarts Castle! The model will be one tenth of the size of the real-life items.
- Choose at least 8 items from the list and calculate what size they will be in the model, writing down the model dimensions for each. The room must sleep at least two people...
- Stick together some pieces of paper, then draw a picture - using the scaled down measurements - to show where everything you have chosen will fit.
- Which dimensions will you need to create this 2-D representation?
- What is the smallest room that could reasonably contain all your items?

Challenge

You have a budget that will allow 3 more items that are not on the list – you could choose 3 things from your own bedroom and measure them or just use your imagination. Write down their real dimensions and the dimensions for the model.



Investigation Hogwarts Castle



Choose from the following items to design your bedroom:

- Single bed 90cm wide, 2m long, 60cm high
- Cabin bed 2.1m long, 90cm wide, 1m high
- 4 poster bed 1.5m wide, 1.9m long, 2m high
- Trunk 90cm wide, 50cm tall, 40cm wide
- Owl's cage 90cm tall, 40cm wide, 40cm deep
- Box of potions 30cm by 20cm by 20cm
- Desk 80cm tall, 1.2m wide, 70cm deep
- Spells book 50cm tall, 30cm wide, 10cm deep
- Flat screen TV 1m wide, 60cm tall and 10cm deep
- Mini TV 30cm by 20cm by 10cm
- CD player 40cm by 20cm by 20cm
- Cube seat, 40cm by 40cm by 40cm
- Video console 30cm by 20cm by 10cm
- Wardrobe, 80cm wide, by 1.2m tall and 50cm deep
- Chest of drawers 80cm wide, 80cm tall, 40cm deep
- Bedside drawers 50cm wide, 40cm deep, 60cm tall

