

## Designing a garden

### Scenario

You are designing a garden for a rap singer who's just bought his girlfriend a new house.

You must provide:

- a scale drawing
- a list of materials and costs (e.g. the type of paving stone, fencing, etc.)
- a covering letter selling the design to the customer.



The garden you have to design is **70m x 50m**.

The customer wants fencing around 3 sides, a patio area in front of the French windows at the back of the house and a pond.

He also wants a party area, such as decking, with a pagoda or a hot tub.

### Task 1 (use A3 paper)

- Draw the perimeter of your garden using an appropriate scale such as 5cm = 10m.
- Include scale and measurements.
- Decide where the patio and pond will be, and what additional features you are going to include. Sketch them on your plan in pencil.

### Task 2

Look on the Internet or in a catalogue to find the following:

- Style, size and cost of a pond
- Style, size and cost of decking/hot tub/pagoda, whichever you decide
- Type of paving you want for your patio, plus cost.
- Type of fencing you want plus cost (include fence posts as well as the panels).

Use the attached sheet to keep a record of the costs.

### Task 3

- Draw to scale the pond, patio area etc on your plan.
- Colour in to show grassed area, patio area etc.

### Task 4

Write a covering letter to the customer to sell your design.

Don't forget to include details of the cost of all materials, labour and the initial design fee.

Labour costs can be based on £15 per hour. Initial design fee would be approx. £400.

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### Task 5

Using the table below work out the mean (average) costs of paving stones and the range of prices. You also need to complete the table by working out the cost of the paving stones including VAT.

| Type of paving stone | Cost per sq. m excluding VAT | Cost per sq. m including VAT |
|----------------------|------------------------------|------------------------------|
|                      |                              |                              |
| Saxon Circle         | £24.40                       |                              |
| Perfecta             | £33.50                       |                              |
| Marshalls Regent     | £18.60                       |                              |
| Utility              | £15.44                       |                              |
| Tegula Deco          | £22.80                       |                              |
| Clay Cobbles         | £28.60                       |                              |
| Cobblestone          | £26.00                       |                              |
| Argent               | £12.88                       |                              |
| Firenza              | £18.60                       |                              |
| Lunar                | £20.00                       |                              |

The average price of paving stones is \_\_\_\_\_

The range of prices is \_\_\_\_\_

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| Material | Cost per sq. m. or panel | Number required | Total cost |
|----------|--------------------------|-----------------|------------|
|          |                          |                 |            |
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### Tutor Notes

Make sure students understand what drawing to scale is and how to work out perimeter and area.

Task 5 is optional and can be omitted from the project or used as an extension task. It provides practice in calculating VAT, mean average and range.

As an extension activity, if students have access to the Internet they can create their own brochure of the different options available to the customer.

[www.marshalls.co.uk](http://www.marshalls.co.uk) has many design ideas and you can download a copy of the brochure which lists all the costs for paving etc.

If you haven't got Internet access, you can get Marshalls catalogues from Jewson's.

[www.jewsonlandscaping.co.uk](http://www.jewsonlandscaping.co.uk) is good for fencing prices etc.

[www.sapphirespas.co.uk](http://www.sapphirespas.co.uk), [www.ukhottubsonline.co.uk](http://www.ukhottubsonline.co.uk) and [www.tubstore.com](http://www.tubstore.com) all have some good examples of hot tubs.