



Unit 20 Drawing and scales

Task 01 – Put the text pieces into the correct order.



KV zur Differenzierung: Schneiden Sie die Textteile aus und lassen Sie sie von schwächeren Schülerinnen und Schülern in die richtige Reihenfolge bringen.

Architectural draughtsmen and women produce construction drawings.

These include scale plans showing measurements and other detailed information for foundations, buildings and structures, based on concepts, sketches or design drawings of an architect,

engineering calculations, specification sheets and other data. For this purpose, they use computer-aided design programmes.

Let us have a look at the drawings that have to be prepared to realise a building project:

First of all, there is the submission plan needed for approval by the local authority.

This is a floor plan of every floor to the scale of 1:100.

Then you need sections and elevations, both also to the scale of 1:100.

For the actual construction of the building, layout plans to the scale of 1:50 and detail drawings to the scale of 1:20 or 1:10 or sometimes even 1:1 may need to be done.



Task 03 – Put the text pieces into the correct order.



CAD (computer-aided design)

Before the development of computer-aided design (CAD), prototype design was a time-consuming process characterised by trial and error.

Today, 3D drawings make the project real before the first brick has been laid.

Apart from the dimensions of the building, more detailed information is entered into the program.

Having defined all parts of the building, the layout or construction of a building can be pictured as two-dimensional floor plans or in a three-dimensional form.

The actual measurements are shown on the plan as single dimensioning or dimensioning chains, thereby defining the strength of a wall, the position of a door or the dimensions of a room.