

STUDENT WORKSHEET

Buildings are designed with use and users in mind, they serve a functional purpose and are aimed at particular target audiences. This series of activities will help you to identify how design is applied in the construction industry, how design influences people's behaviours and use of the built environment, and how design in the construction industry has changed over time.



WITH YOUR GROUP

When working in a group, allocate a note taker and speaker to report on your group's findings.

Consider and discuss the basic components that are used to construct a design composition:

- line
- shape
- direction
- size
- texture
- colour
- value
- type

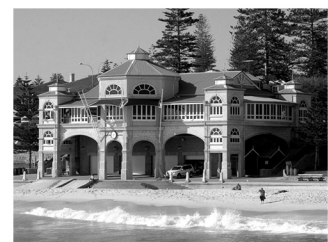
Can you identify and list examples of each in buildings in your local environment, either in your home, school or other buildings?

You may need to do a web search to assist with the definition of each of these terms.

Allocate these design components to members of your group so that each of you can do further research to find different examples of how they have been applied in construction over time.

Each individual group member is to research their allocated design element(s) and locate three photos illustrating how these have been applied in three different time periods. When selecting and saving photos, make sure you can identify the time period represented, the name of the architectural style and don't forget to keep a record of where you located the photo.

Once group members have completed their web search, discuss your findings focusing on how the application of each design component has changed over time and how these design elements are used to design and build homes that make occupants feel 'at home'.





ON YOUR OWN

Research jobs in the construction industry that have a design focus. These websites provide a good place to start:

<https://ctf.wa.gov.au/careers/>

<https://www.jobsandskills.wa.gov.au/>

You may want to broaden your search, but make sure to focus on valid sources from Australia.

Create a recording sheet to help you record information about jobs in the construction industry that focus on design. Your record sheet should include the following headings:

- Job title
- Main work done
- Knowledge and Skills
- Training/Qualifications required
- Source



WITH YOUR GROUP

Share and exchange your findings on roles in the construction industry that have a design focus.

Discuss the photos located earlier in the context of these roles and the ways in which design is intended to influence how people use and interact with buildings.

Discuss the importance of design in the construction industry by analysing the following statement:

“There is no more important job in the construction industry than that of the designer.”



ON YOUR OWN

While at the Construction Futures Centre, locate further information on roles in the construction industry that have a design focus. Add any new information to the notes on your record sheet.

As a follow up to your visit to the Construction Futures Centre, apply what you have learned about design in the construction industry to create design sketches showing how at least three of the design elements have been applied in buildings from three different periods. Make sure you identify which period each sketch represents and annotate the design elements you have focused on.

Create a design for a building to be constructed in 2050 and show how your chosen design elements may be applied differently at this time and give reasons why in relation to intended use and users of the building.