

## Project Brief:

In groups of three or four, you are tasked with designing a luxury hotel for an important client.

Your hotel must be aesthetically pleasing, environmentally friendly and utilise the latest technology.

At the end of the project, the three teams with the best designs will get the chance to present their ideas to the panel of judges and an overall winning group will be chosen.

You will each have an individual role but must work as a team to produce the best hotel design. Each role is described below, and you must decide who will undertake which role based on the skills required for each.

## The Designer:

Must be creative and good at using Google Sketch Up or similar tools

As the designer, you have 5 tasks to complete plus an extra *challenge* task.

1. You must decide on the location of your hotel from the three options discussed in the introduction presentation. These are Central London, Dubai or Cotswolds Countryside. Your location will influence every aspect of design so choose wisely! Please note there is no 'right' or 'wrong' location choice so pick based on your group's personal choice.
2. You must decide on the size of your hotel in terms of square metre building footprint, number of storeys/bedrooms and size of any gardens or land.
3. You must decide what facilities will be included within your hotel such as restaurants or swimming pools, as well as how many bedrooms you will have.
4. You must design and illustrate the exterior and interior of your hotel using Google Sketch Up and / or hand drawings. At a minimum you will need to submit designs for the exterior, one bedroom and a general space such as restaurant or reception area.
5. You will need to choose a name for your hotel which you think represents your team and your design.

### \*CHALLENGE\*

Your extra challenge task is to research the key structural properties of different construction materials including concrete, steel, timber and glass. You should provide a summary of these properties and examples of when it might be appropriate to use each material and why.

## The Technology Specialist:

Must be tech-savvy and good at software design

As the Technology Specialist, you have 5 tasks to complete plus an extra *challenge* task.

1. You must decide on the technology that will be used to check guests into the hotel.
2. You must decide on the communication system for the hotel – for example, how would a guest contact reception or order room service?
3. You must decide what entertainment systems will be provided in guests bedrooms such as televisions or games consoles.
4. You must consider any safety or ethical issues that may arise through the technology included in your hotel, and how you will prevent these issues.
5. You must design the homepage for the hotel website.

### \*CHALLENGE\*

Your extra challenge task is to create an app that can be used by guests in your hotel. The app could be for any purpose you like but could be for booking, checking in, or ordering room service for example. In your report you should describe the app you have created and include screen shot images of the key features. If chosen to present, you will then show the app to the judges.

## The Sustainability Manager:

Must have good social awareness and strong research skills

As the Sustainability Manager, you have 5 tasks to complete plus an extra *challenge* task.

1. You must decide on which construction materials are most environmentally friendly and appropriate for your hotel to be built from.
2. You must decide on the energy sources that will power the hotel.
3. You must design the waste and recycling system for the hotel.
4. You must decide how water use will be managed and minimised within the hotel.
5. You must consider how people will travel sustainably to and from the hotel.

### \*CHALLENGE\*

Your extra challenge task is to create a Risk Assessment for the construction and operation of the hotel. You will need to consider the risks that might be encountered by the people who will build your hotel, and the people who will work in your hotel once it is complete, and how you can prevent anyone getting hurt. You should be able to find plenty of examples of Risk Assessments on the internet.

## **Sessions:**

You will have three formal sessions from 2.20pm-4.20pm on Wednesday 22<sup>nd</sup> April, Wednesday 6<sup>th</sup> May and Wednesday 20<sup>th</sup> May.

**Session 1** will consist of an introduction to the project and initial research and design.

**Session 2** will begin with a half an hour workshop with three separate sessions for each role. This will be your chance to share ideas and ask any questions relating to your specific role and your work so far. The remainder of the session will be for you to build on ideas from your workshops and write your report.

**Session 3** will have half an hour for you to finalise, print and submit reports to the judges by 3pm. The remainder of the session will be for judging and presentations which are described in more detail below.

## **Submission:**

Your group will need to produce a report that includes details of all the work you have undertaken and any drawings or images you have produced. This report should be no more than 20 pages long and should include an introduction and a section for each role with sub-headings for each task undertaken. Your report should also include a cover page with the names of your group members and your hotel name. A hard copy will need to be submitted by 3pm on the 10<sup>th</sup> July.

You will also need to prepare a 10-minute presentation explaining the key features of your hotel and why you made your design choices. You do not need to prepare a PowerPoint but you could produce a poster or print any images to support your presentation.

## **Judging:**

At 3pm, once all reports have been submitted, the judges will have half an hour to review the reports and select the best three submissions.

During the half an hour when reports are being marked, your group will need to finalise your presentation. Only the top three groups judged to have submitted the best reports will be asked to present to the judges, but every group must prepare in case they are asked to present.

At 3.30pm, the best three reports will be announced, and these groups will then have a chance to present to the judges, as well as answer any questions the judges may have.

Once all three groups have presented, the judges will deliberate, and the overall winning group will be chosen.