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| Name:  Teacher : | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date:\_\_\_\_\_\_\_\_\_ |
|  | **Year 12 Essentials**  **Floor plan design Investigation**  ***Full working out MUST be shown to get full marks for each question.*** | |

Alessandro works for Next Generation homes. He has been tasked to design a 4 bedroom 2 bathroom house. His building company also wants him to make sure there are inclusions in the house floor plan, such as a scullery, theatre room and lounge room, extra built in storage, double garage and complete kitchen. All house designs by Next Generation use a minimum of 31 brick courses high for their walls.

As a part of your investigation, you are going to design the floor plan of a house, using standard symbols and abbreviations, that Alessandro could consider. You will need to use graph paper, a ruler and pencil and include key dimensions on your house plan. You will need to ensure that you use a scale that is reflective of your design, and reasonable to the application.

Secondly, you will need to come up with a costings estimate for your house. You will need to include prices for the floor coverings (tiles, wood, carpet) as well as research about how much paint would be required for two coats, to paint the bedroom and theatre walls of your design. All painting and tiling is included in the build price, so labour does not need to be in your calculations. These calculations will need to be neat and well presented.

Finally, your design should be unique to you. It is okay to research what other house floorplans look like, but you must develop your own design. Any plagiarism will result in a mark of zero being awarded. All websites need to be documented in a bibliography – this will help you remember where your prices came from.

You will need to submit a written report. You will need to list the features of the home, and the total cost of the painting, floor coverings and total floor area of the design. The design should be included in the report.

You have a total of 4 in class lessons with which to research and design your house. This assessment is to be completed and handed in at the end 4th lesson. You are able to take this assessment home to work on it.

DUE DATE:\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_\_\_\_\_\_\_\_



NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | **5 marks** | **4 marks** | **3 Marks** | **2 Marks** | **1 Mark** |
| **House design** | House floor plan has all inclusions required;  4 bedrooms  2 bathrooms  Theatre room  Kitchen  Scullery  Lounge  Double garage  Storage | Most inclusions in plan;  4 bedrooms  2 bathrooms  Kitchen  Lounge | Included 4 Bedrooms and 2 Bathrooms and 2 included extras | Included 4 bedrooms and 2 bathrooms | Basic inclusions:  At least 3 bedrooms, at least a bathroom |
| **Floors** | Each room has coverings annotated with dimensions | At least two different coverings selected and annotated | Coverings are annotated, and shaded or marked differently | Coverings are annotated | Not coverings listed |
| **Calculations** | Total floor area found with correct working out | Total floor area found, with 1 or 2 errors in working | floor area found in some rooms | Floor area found in some rooms, but errors in working out | Not floor area found |
| **Costings- floor coverings** | Costings found using the floor area from above, prices evidenced from sources. | Costings found with prices, no sources listed | Costings found of some rooms, with different materials | Costings found of one or two rooms, of different materials | Costings found of one type of material |
| **Costings –**  **Painting** | Correctly calculates 31 course height, TSA of interior walls, determines cost of painting and amount of paint needed. Removes Doors and windows from calculations. Doubles amount for two coats. | Correctly calculates 31 course height, TSA of interior walls, determines cost of painting and amount of paint needed. Doubles amount for two coats. | Correctly calculates 31 course height, TSA of interior walls, determines cost of painting and amount of paint needed. | Calculates 31 course height and TSA of inside walls | Does not find TSA of rooms |
| **Scale** |  | | Simplifies ratios used with measurements | Writes scale as a ratio | Selects a scale |
| **Presentation** |  | Design has all dimensions labelled, clear and concise symbols, and neatly presented. | Design is neat, clear and concise.  Symbols and annotations are correct. | Design is submitted with Some symbols and annotations. | Design has not symbols or annotations. |
| **Report** | 1 mark each -> | Typed | Ruler used | Paragraphs used | Spelling/Grammar |
| **TOTAL** | /36 | | | | |