



**THE RIVERS**  
SECONDARY COLLEGE

*The heart of secondary education for Lismore*

## Assessment Task Notification

**RICHMOND RIVER HIGH  
CAMPUS**

<b>Task Number</b>	2	<b>Task Name</b>	Scale Drawings – Dream House
<b>Course</b>	Year 12 Numeracy	<b>Faculty</b>	Mathematics
<b>Teacher</b>	Ms Cabot	<b>Head Teacher</b>	Ms Humphries
<b>Issue date</b>	Friday (1.3.24) Week 5	<b>Due date</b>	Friday (15.3.24) Week 7
<b>Focus (Topic)</b>	<i>Understanding geometric properties: UGP1, UGP2 Positioning and locating: PoL3, PoL4, PoL5</i>	<b>Task Weighting</b>	20%

### Outcomes

- draw simple two-dimensional plans to show placement of objects in relation to one another
- draw simple three-dimensional objects using isometric, perspective, oblique and exploded drawings
- read and interpret plans, diagrams and simple scale drawings representing familiar real-life shapes and objects
- match or construct simple three-dimensional objects from various forms of drawings, including front, back and side views or three-dimensional views, such as matching house plans to house photographs, giving reasons for the match

### Task description

Students will complete the Dream House task both in class and at home. In order to gain an outstanding achievement level for this task, you must fully complete all 4 steps. Therefore, **you must take full advantage of time spent in class as well as spend additional time at home if required.** You should start with basic sketches and then move on to accurate diagrams drawn using a ruler. If you are absent from class please contact your teacher to catch up on the work for that lesson.

Name:

## Marking Guidelines

Task	Criteria	Marks
Step 1	<b>Birds Eye Sketch</b> <ul style="list-style-type: none"> <li>• The birds' eye view of the house clearly shows what will be on the property – including all outdoor features. (6)</li> <li>• An appropriate scale was chosen and written on next to the diagram, diagram to scale. (1)</li> <li>• List of shapes used in your diagram. (1)</li> <li>• Perimeter measurements displayed and to appropriate scale. (1)</li> <li>• Land measurements stated. (1)</li> </ul>	/10
Step 2	<b>House Plan</b> <ul style="list-style-type: none"> <li>• Rooms and area functions clearly identified. All necessary rooms included and displayed in the correct floor plan format. (8)</li> <li>• Scale is appropriate. (1)</li> <li>• Floor plan is to scale. (1)</li> <li>• All wall measurements are clearly labelled and realistic. (2)</li> <li>• All fixtures (e.g. toilet) are labelled and symbols are clearly explained. (8)</li> </ul>	/20
Step 3	<b>The Details</b> <ul style="list-style-type: none"> <li>• What is the size of each room or living space? (4)</li> <li>• Identify what flooring materials you will use in what areas. Please give total areas for each material type?(Bedrooms 2 marks, bathrooms 2 marks, living areas 2 marks)(6)</li> <li>• For each flooring material research the cost per metre and calculate the cost of flooring materials for you build. (6)</li> <li>• What is the size of your house in square metres?(4)</li> </ul>	/20
<b>Total</b>		<b>/50</b>



**Name:**

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### **TERM 1 ASSESSMENT TASK**

**Design your Dream House Assignment      Completed**

- |                          |                          |
|--------------------------|--------------------------|
| Step 1: Birds Eye Sketch | <input type="checkbox"/> |
| Step 2: House Plan       | <input type="checkbox"/> |
| Step 3: The Details      | <input type="checkbox"/> |

#### **Introduction**

You need to design your own dream house, create a plan that shows what the house would look like and calculate the cost of the flooring materials.

You will choose the size and shape of the block of land you choose to build on, however, it will be a flat block. You will calculate the perimeter of your land and house. Remember that perimeter does not have to be rectangular or square.

The house must include all the features and functions to make it a functional home. This includes bathrooms, laundry, kitchen and bedroom(s). You will determine the flooring material(s) you will utilise in the various spaces in your house and calculate the material(s) cost. Your house can be either single storey or multi-storey.

You just need to complete the steps below to complete your project. Have a look at some advertisements from real estate agents for some ideas on designs and features to include. Use the measurements from your own house as a guide!

### **Step 1: Sketch**

Draw a sketch (bird's eye view) of your property (to scale). Think about whether your house will have a garden, swimming pool or any other interesting features on the outside. Don't forget the garage or car port!

### **Step 2: Plan**

Draw a house plan to scale which shows where all the rooms will be. This plan must include:

- The measurement of the outside walls of the house.
- The dimensions of the rooms inside the house.
- The function of each room or living space clearly labeled.
- Legend showing what the symbols represent such as toilets, baths, showers, beds, doors, windows and built in furnishings (i.e. all cupboards and wardrobes). Make sure you have a key that shows what the symbols represent.

### **Step 3: The Details**

- What is the size of each room or living space?
- What flooring materials will you use in each room or living space?
- How much of each material will you need in *total*?
- What is the cost per metre of each flooring material, and how much will it cost to purchase the quantity you require in each material?
- What is the size of your house in square metres?