**A picture containing text, outdoor, tree, sign

Description automatically generated**

**Tasks:**

**Task 1: 6 buildings exercise** (watching videos and responding to questions)

Term 2, week 3

**Task 2: ideation from videos**

Term 2, week 3

**Task 3: word-based ideation**

Term 2, week 4

**Task 4: ideation from visual inspiration**

Term 2 week 4

**Task 5: ideation from other buildings**

Term 2 weeks 4 + 5

**Task 6: exploration of ideas**

Term 2 weeks 5 + 6

**Task 7: testing design considerations**

Term 2 week 7

**Task 8: mock-up**

Term 2 week 8

**Task 9: development**

Term 2 weeks 9 and 10

Term 3 week 1, 2, 3

**Task 10: refinement**

Term 3 week 4

Hand in project: Friday 14th August

**A picture containing text, outdoor, tree, sign

Description automatically generated**

**Task 1: 6 buildings exercise**

***Watch the provided videos about 6 small buildings that are interesting.***

Go to DVC website: <https://dvckaramu.weebly.com/11-dvc.html>

Answer questions on the provided Teams assignment.

**Task 2:** **Ideation from videos**

Choose one or more of the ideation activities on the ideation page of the website.

See the teams assignment with examples for what your ideation could look like.

**Task 3: Word-based ideation**

Fill a page with quick drawings which respond to descriptive words in a way that shows ideas for form for a building. Use coloured paper, pencils and collage.

**Task 4: Ideation from visual inspiration**

Choose your own images or theme to explore. Or, alternatively, use another exercise from task 2 to explore. **Task 5: Ideation from other buildings**

Initial goals…..

* To use design judgements to describe and analyse relevant buildings
* To look at a range of buildings that people live in (small dwellings, apartments, houses, caravans, moveable and portable architecture)
* To get inspired for our own design project by drawing

**Step 1:**

1. Find 3 - 6 small buildings that are interesting. Use books, magazine and the internet. You may want to use the buildings from task 1, and/or any others.
2. Answer the following questions about each building:

* Building name/description
* Aesthetics: What has the architect done to make this building interesting/unique/effective to look at? What may have inspired this building?
* Function: What has the architect done to make this building work well/be a clever use of limited space/make it user friendly/ergonomic?

Arrange the images and written analysis on an A3 page.

**Step 2:**

On a second page, do your own drawings of ideas for a small house, using your research as inspiration. Use freehand oblique, isometric, planometric and perspective.

**Task 6:** **Exploration of ideas**

1. From previous tasks, identify any aspect of ideation that you want to explore some more for your Small House Design.
2. Photocopy, or photograph these earlier aspects, and add these images to your page. Summarise in words what the idea is and where it came from.
3. Draw (in freehand) a range of different ideas that are inspired by your ideation eg:

* Quick sketches of possibilities
* Exterior form, including roof form, levels, stories etc
* Interior spaces including interesting use of space for compact/small house
* exploration of possible floor plans which show walls, windows, doors and furniture
* Label spaces (see design specifications)

1. Add notes to explain your ideas

**Task 7: Testing design considerations**

1. Use the provided grid paper to start to explore a range of possible floor plans. Consider:

* overall floor area (48m2 maximum) and sizes of rooms,
* arrangement of rooms
* size of elements such as kitchen and bathroom features
* all other specifications relating to spaces

1. Show alternative floor plans (using freehand drawing) that consider

* the orientation to north and
* which spaces will be affected by sunlight and
* various times of the day and seasons

1. Use 3D views of your building ideas to explore:

* overall building form
* interiors of rooms/spaces

1. Use sectional views to show:

* Roof overhangs / eves
* Light penetration into the interior
* Room sizes/heights/levels etc

**Task 8: Mock-up and development**

Make a mock-up of your building using Sketch-Up (architectural template, millimetres)

Use sentence starters to help you write about your mock-up and the different things you considered and trialled.

See coloured hand-out “design development…in terms of thinking, questioning + writing design judgements…for DVC”

Combine this writing with screen shots or photos of your mock-up.

**Task 9: Development**

**Development**  = exploring options and/or refining or improving your design.

= trialling and comparing different possibilities

= deciding and justifying

**Development questions/considerations….**

1. **Context confirmation**

* Which scenario from the original brief are you committing to?
* Where does your idea come from / what inspired it / what is the key idea you have explored?
* Outline the key requirements of the brief in your own words / diagram / etc

1. **Floor plan**

*Sketch your current floor plan roughly to scale*

* How big are my rooms?
* Are my rooms laid out in a convenient way? E.g.: kitchen near living room, plumbed areas nearby?
* Can I open up my plan more? E.g. are there too many corridors/hallways/wasted spaces?

1. **Elevation**

*Use projection lines from your floor plan to create an orthographic drawing which show a plan and an elevation together.*

* Does it look in proportion? Are things balanced? How are windows and doors arranged? Consider different ways of including windows/doors.
* What form is the roof?
* How does this relate to sun and view potential?

1. **Section**

*Draw another adjusted floor plan to create an orthographic drawing which show a plan and a section together.*

* Show the thickness of the floor, any level /height changes, roof angles etc.
* Use darker lines for the “cut through” areas and lighter for what happens beyond the section cut.

1. **3D views**

*Then use all of this information combined to draw an isometric freehand drawing*

*Colour rendering can be used to show how sunlight will enter the building, especially in planometric drawings of the interior.*

See all handouts and books in the graphics room to help you with drawing techniques and information about sizes of typical things within a house etc.

**Development continued…**

Use freehand drawing to show more detail, variations and possibilities for the exterior and interior of your house design.

Add annotation/design judgements to further explain your thinking and what you have been considering.

Show research into possible building materials and then how you could use these in your own design.

Weave together the following considerations in order to complete the development of your small house:

* Room layout and size
* Orientation for sun and light
* Material possibilities for interior and exterior
* Variation in form and detail of the exterior: windows/glazing, openings, roof form, wall placement etc
* Variation in form and detail of all aspects of the interior and how to better include all of the required spaces/specification
* Links back to earlier inspiration and ideation
* Any new research or ideas that are influencing the way you are developing your ideas.

Drawings should include:

* Freehand floorplans, elevations and sections (orthographic/2D)
* Freehand oblique, isometric, planometric, perspective
* Colour rendering to show material texture, surface qualities, light and shadow/tone
* Detailed drawings
* Exploded, sequential and sectional views where possible

**Task 10:**  **Details**

Produce a final page (s) of details drawn in freehand that show some key connections or areas within your house design. Cut-away views and exploded aspects will be useful to best communicate this level of detail.

**Task 11: Refinement and preparation for orthographic**

Produce a scaled floor plan using instruments. Clearly show all design features.