

Regenerating Australia - Regenerate A Space Challenge



Name

Class

Student Worksheet

Task Requirement:

You are going to investigate various aspects of sustainability and regeneration in relation to building design. You will then use this information to retrofit a room in a building of your choice, e.g. home, school or a sporting club. Consider transforming a space that you like to visit, somewhere that holds meaning to you and your group.

Instructions:

1. Organise yourselves into groups of three or four. For about 5 minutes, brainstorm and write down any sustainable products you have seen before. Share one product and tell the class why it is sustainable and how the concept of regeneration applies.

Product:	Why is it sustainable?	How does the concept of regeneration apply?

Some example examples of regeneration:

Rewilding, planting trees, solar energy harvesting, not wasting food or water, producing/using materials that are derived from regenerative practices, including ones that sequester (store) carbon dioxide.

Have a look at the example of the regenerative and sustainable materials in your [Regenerative Design fact sheet](#) for examples of what you can use in your home.

2. Research one company or area of sustainability, provide an image of the product or service, and answer the following questions:

- **Social/Ethical** - how does the product or service contribute to the livelihoods of people?
- **Environmental** - how does the product or service consider things like waste, recycling or carbon footprint?
- **Economic** - Is there information on how the company treats its workers? Are they paid fairly? Who benefits economically from this product or service?

3. Share your findings with other groups in the class and take note of what they have researched too.

4. Based on your research above, list your researched item/product and a criteria question that helps others make good decisions on sustainability. Write these in the [regeneration retrofit checklist](#) provided.

- For example, are the curtains made from sustainable fabric? Are the organic fibres farmed using regenerative practices?
- Are there any alternative options that are regenerative in nature? For example - feature plant walls can often be used in place of curtains. Plants sequester carbon, purify the air, and can provide privacy while connecting us to nature at the same time.

5. Take a copy of the class [regeneration retrofit checklist](#) and add/remove items as your group sees fit. You will use this when selecting materials and making decisions about the retrofit in the next task.

Retrofit

6. Visit the area you're going to retrofit and sketch or take photos of the space. Take note of who will use the space, what happens in the space, what the space looks out on to (views), what the position of the sun is in relation to the space, what does it look/feel like at different times during the day, and any special features this space has.

- Brainstorm retrofitting ideas
- Visualisations or sketches of retrofit ideas
- 1:50 scaled drawing of a floor plan of the room
- Collect images, drawings and samples of materials you will apply.

Create a mood board out of the work you created in step 6 to present the new look and feel of the space. Lay drawings and images in a way that best communicates the ideas. Annotate to show where regeneration and sustainability have been considered and why.