



Introduction

Welcome to this exciting project where you will design and build a model using recycled materials, conduct online research, and provide peer feedback. This project is designed to promote sustainability, conservation, and critical thinking while developing your research, communication, and collaboration skills.

The importance of using recycled materials in model building cannot be overstated. Not only does it reduce waste and conserve natural resources, but it also encourages creativity and innovation. In this project, you will have the opportunity to explore different types of recycled materials, design and build a model, and present your work to your peers.

Getting Started

To begin, consider the following questions:

1. What is the importance of using recycled materials in model building?

2. What are some examples of recycled materials that can be used for model building?

Online Research

Conduct online research to gather information on sustainable building practices, recycled materials, and model building techniques. Consider the following questions:

1. What is the purpose of conducting online research for this project?

2. What are some online resources that you can use to conduct research for this project?

Group Task:

Work in groups to research and create a list of online resources that can be used for this project.

Resource	Description

Design and Planning

Consider the following factors when designing your model building project:

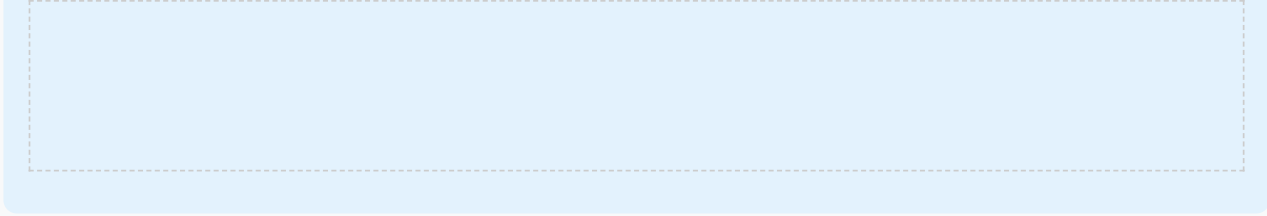
1. Sustainability, creativity, and functionality

2. Cost, time, and materials

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Individual Reflection:

Take a few minutes to reflect on your design and planning process. What challenges did you face, and how did you overcome them?



Building and Construction

Begin building your model using recycled materials. Consider the following safety precautions:

1. Wear protective gloves and goggles

2. Use scissors and cutting tools with caution

Group Task:

Work in groups to build your models and provide peer feedback on each other's work.

Model	Feedback

Peer Feedback

Provide constructive feedback to your peers on their models. Consider the following guidelines:

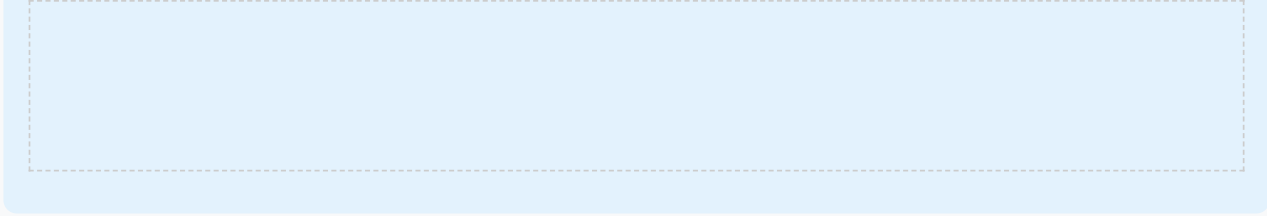
1. Be respectful and specific

2. Focus on the model, not the person

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Individual Reflection:

Take a few minutes to reflect on the feedback you received and how you can use it to improve your model.



Presentation

Prepare a short presentation to showcase your model and explain your design and building process. Consider the following tips:

1. Practice your presentation beforehand

2. Use visual aids and props

Group Task:

Work in groups to practice your presentations and provide feedback to each other.

Presentation	Feedback

Reflection and Evaluation

Reflect on your learning and evaluate your model based on the following criteria:

1. Sustainability

2. Creativity

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Individual Reflection:

Take a few minutes to reflect on your learning and what you would do differently next time.



Extension Tasks

Choose one of the following extension tasks to complete:

1. Design and build a sustainable community using recycled materials

2. Create a public service announcement about the importance of recycling and sustainability

Group Task:

Work in groups to complete your chosen extension task and present your work to the class.

Task	Presentation

ELL/ESL Support

For ELL/ESL students, consider the following strategies:

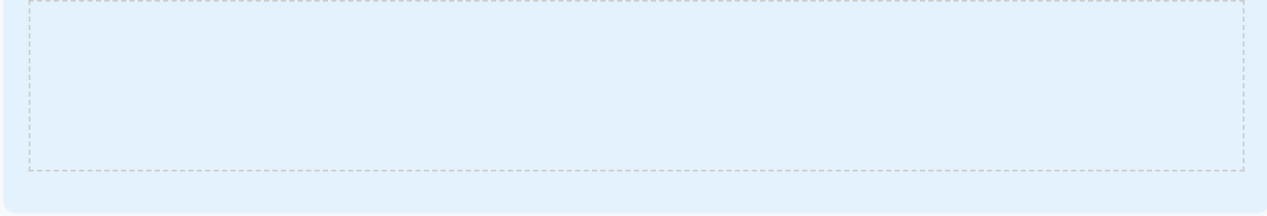
1. Providing visual aids and simple instructions

2. Offering one-on-one support and guidance

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Individual Reflection:

Take a few minutes to reflect on how you can support ELL/ESL students in your class.



Conclusion

Congratulations on completing this project! You have demonstrated your knowledge and skills in designing and presenting a model building project using recycled materials, conducting online research, and providing peer feedback.

Remember to apply what you have learned to your everyday life and continue to develop your critical thinking, communication, and collaboration skills.

Individual Reflection:

Take a few minutes to reflect on your learning and what you would do differently next time.

Assessment Rubric

Your project will be assessed based on the following criteria:

1. Creativity and originality of the model building design

2. Effectiveness of online research and presentation

Group Task:

Work in groups to review the assessment rubric and provide feedback to each other.

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Criteria	Feedback
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Advanced Concepts

As you continue to develop your model building skills, it's essential to explore advanced concepts that can enhance your designs and presentations. One such concept is the use of sustainable materials in model building. Sustainable materials are those that are environmentally friendly, non-toxic, and can be recycled or reused. Examples of sustainable materials include recycled paper, cardboard, and bamboo.

Case Study: Sustainable Model Building

A group of students in a design class were tasked with creating a model of a sustainable community using only recycled materials. They used recycled cardboard, paper, and plastic to create an intricate and detailed model that showcased their understanding of sustainable design principles. The model included features such as green roofs, solar panels, and a rainwater harvesting system.

Activity: Designing a Sustainable Model

Design and build a model of a sustainable building or community using only recycled materials. Consider the following factors:

1. Energy efficiency

2. Water conservation

3. Waste reduction

Presentation Techniques

Effective presentation techniques are crucial in communicating your design ideas and showcasing your model building skills. One technique is to use visual aids such as diagrams, charts, and images to support your presentation. Another technique is to practice your presentation beforehand to ensure that you stay within the time limit and deliver your message clearly and confidently.

Example: Presentation Tips

When presenting your model, consider the following tips:

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- Make eye contact with your audience

- Vary your tone and pitch

- Use body language to emphasize your points

Group Task:

Work in groups to practice your presentation skills and provide feedback to each other.

Presentation	Feedback

Peer Feedback and Review

Peer feedback and review are essential components of the design process. They allow you to receive constructive feedback on your work and make improvements before finalizing your design. When giving peer feedback, consider the following tips:

1. Be specific and objective

2. Focus on the design, not the person

3. Provide suggestions for improvement

Individual Reflection:

Take a few minutes to reflect on the feedback you received and how you can use it to improve your design.

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Conclusion and Next Steps

Congratulations on completing this project! You have demonstrated your knowledge and skills in designing and presenting a model building project using recycled materials, conducting online research, and providing peer feedback. As you move forward, consider the following next steps:

1. Refine your design and presentation skills

2. Explore new materials and techniques

3. Share your work with others

Group Task:

Work in groups to brainstorm ideas for your next project and provide feedback to each other.

Project Idea	Feedback

Assessment and Evaluation

Your project will be assessed based on the following criteria:

1. Creativity and originality of the design

2. Effectiveness of the presentation

3. Quality of the peer feedback and review

Individual Reflection:

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Take a few minutes to reflect on your learning and what you would do differently next time.

Extension and Differentiation

For students who want to extend their learning, consider the following activities:

1. Design and build a model of a sustainable community

2. Create a public service announcement about the importance of recycling and sustainability

Group Task:

Work in groups to complete your chosen extension activity and present your work to the class.

Activity	Presentation



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Designing and Presenting a Model Building Project Using Recycled Materials with Online Research and Peer Feedback Opportunities

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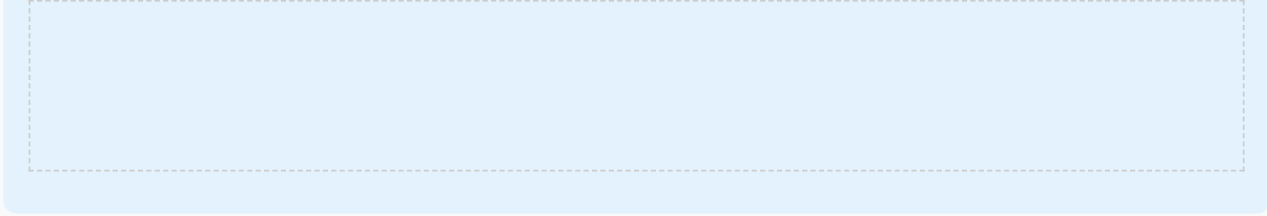
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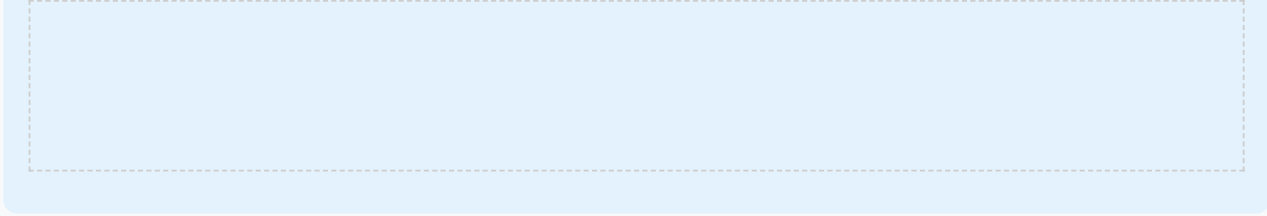
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Presentation	Feedback

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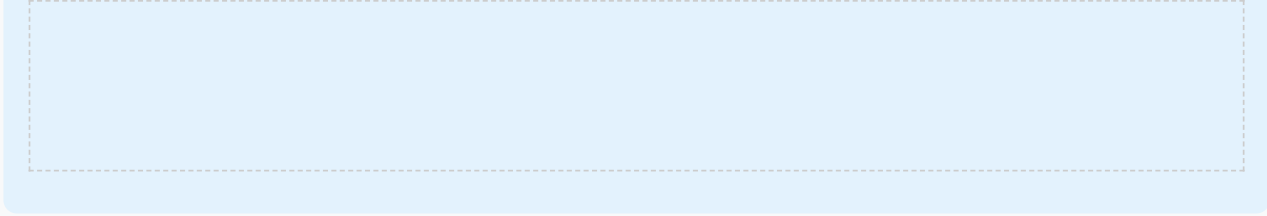
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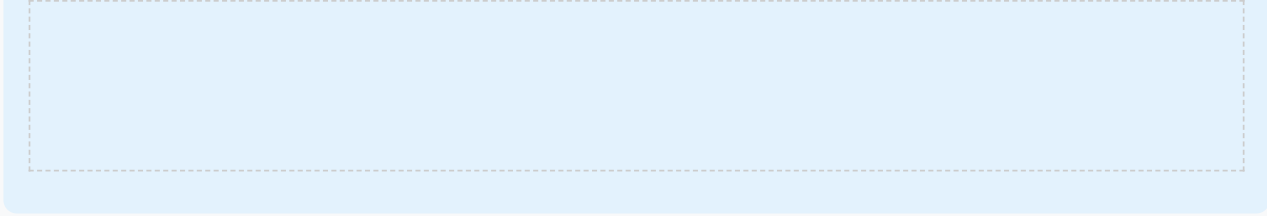
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