

HNC @ HOME 2026



A Level 3D Design – *Activity 2*

Sustainable Design

Activity Overview:

In many design disciplines, including 3D design, understanding sustainable practices is increasingly important. You will gain valuable insights into how design choices impact the environment, society, and the economy. It aligns with the broader theme of responsible design practices, which is essential for future professionals in the field.

Instructions:

Learn about the principles of sustainable design, including concepts such as lifecycle assessment, eco-friendly materials, and design for disassembly. Explore themes of sustainable design to understand real-world applications and challenges, and how this could be applied to everyday objects.

For example:

Biomimicry in Architecture: The Eastgate Centre in Harare, Zimbabwe, designed by architect Mick Pearce, is inspired by termite mounds. The building utilises natural ventilation principles, minimizing energy consumption for heating and cooling.



Mick Pearce, Eastgate Centre in Harare Zimbabwe

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Urban Green Spaces: The High Line in New York City transformed an abandoned elevated railway into a vibrant public park. The project incorporates sustainable landscaping techniques, promotes biodiversity, and enhances urban resilience.



Diller Scofidio + Renfro, and Piet Oudolf, The High Line in New York City

Reflect on how you can integrate sustainable principles into your own design practice of an everyday object. Write about the research you have undertaken and what inspires you to encompass sustainable practices into your everyday object design, this should be a written reflection of how you would encompass into your designs.