

Insulated Building Construction Project

DEPCO

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Overview:

In this Gateway To Technology (GTT) - Green Architecture curriculum, a team of 10 students uses building plans for a single-story shed with insulated walls, one window, and one door. The team of students is divided into smaller teams of two, each constructing a different part of the shed.

Students will also insulate the walls of the shed. As students insulate the shed, they will learn about heat loss for the winter and summer seasons in their area as well as the concepts of thermal conduction and convection.



Activities:

1. Introduction
2. Side Wall Framing with Sheathing
3. Back Wall Framing with Sheathing
4. Window Wall Framing with Sheathing
5. Door Wall Framing with Sheathing
6. Assemble the Walls & Attach to the Concrete Slab
7. Setting the Trusses
8. Attaching Soffits & Subfascia Boards
9. Roof Sheathing & Door Mounting
10. Post-Test & Wrap-Up
11. Bonus Activities
12. Challenge
13. Open-Ended Challenge
14. Careers
15. Internet

550120 - *Insulated Building Construction Project**

- Build Guide and CD with Activities
- Insulated Building Construction Kit (2)
- Set of Building Templates (2)

550100 - Additional Insulated Building Construction Kit

* Recommended two per 20 students

550101 - Additional Insulated Building Construction Student Activity Guide and CD

960001-02 - Additional Building Templates

960100 - Replenish Kit (Studs and dimensional lumber)

550104 - Insulation Replenish Kit

550116 - Roof & Walls Sheathing Replenish Kit