

## Testing Materials and Designs Unit Plan

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Outcomes:

3-8:

1. Recognize that functional structures must be sufficiently strong and stable and that unstable or weak structures are often unsafe to use.
2. Compare and evaluate the strength and stability of different models or objects constructed
3. Describe the distinctive properties of some common solids, such as wood, paper or plastic, that make them suitable for use as building materials
4. Apply procedures to test the strength of construction materials, in particular, different stocks of paper, plastics or wood
5. Apply procedures to test different designs
6. Apply procedures to test the strength of different methods of joining.
7. Identify and apply methods for making a structure stronger and more stable; e.g., by adding or joining parts to form triangles