



UNDERSTAND

Build a paper house (DM9)

Materials

Lolly sticks	Sticky tape	Strips of newspaper
Glue	Strips of paper	Scissors

Instructions

1. Place 4 lolly sticks on a flat surface in the shape of a square. Glue the corners together. Set aside to dry completely. Repeat this process to create enough squares for the walls of the model. At least 4 will be needed.
2. Cut the paper into strips that will lie easily across the panel frames. Lie the paper strips on the panel parallel to each other with at least 1.5cm between straws. This will form the structure for weaving newspaper strips. Secure in place with sticky tape.
3. Weave strips of newspaper (around 1cm wide) between the paper in a traditional in-out pattern. Continue weaving until the panels are full.
4. Assemble the panels into a house and tape the edges together loosely with the sticky tape.
5. To make a roof place strips of newspaper across the top of the house and glue to the lolly sticks.

How does the strength of this house compare with a house made of

- a) Only straws
- b) Wattle and daub



UNDERSTAND

Build a straw house

Materials

Lolly sticks	Sticky tape	Paper straws
Glue	Newspaper	Scissors

Instructions

1. Place 4 lolly sticks on a flat surface in the shape of a square. Glue the corners together. Set aside to dry completely. Repeat this process to create enough squares for the walls of the model. At least 4 will be needed.
2. Cut the straws to a length that will lie easily across the panel frames. Lie the straws on the panel parallel to each other with at least 1.5cm between straws. Secure in place with sticky tape.
3. Weave straws between the straws in a traditional in-out pattern. Continue weaving until the panels are full.
4. Assemble the panels into a house and tape the edges together loosely with the sticky tape.
5. To make a roof place straws across the top of the house and glue to the lolly sticks.

How does the strength of this house compare with a house made of

- a) Only paper
- b) Wattle and daub



UNDERSTAND

Build a wattle and daub house

Materials

Lolly sticks	Sticky tape	Soil
Glue	Strips of paper	Water
Paper straws	Sand	Spoon
Scissors	Clay	Newspaper

Instructions

1. Place 4 lolly sticks on a flat surface in the shape of a square. Glue the corners together. Set aside to dry completely. Repeat this process to create enough squares for the walls of the model. At least 4 will be needed.
2. Cut the straws to a length that will lie easily across the panel frames. Lie the straws on the panel parallel to each other with at least 1.5cm between straws. This will form the structure for weaving the materials and adding the mud. Secure in place with sticky tape.
3. Weave strips of paper between the straws in a traditional in-out pattern. Continue weaving until the panels are full.
4. Assemble the panels into a house and tape the edges together loosely with the sticky tape. Place the house on a piece of newspaper.
5. Create the daub mixture by combining clay, sand and soil. Mix thoroughly with a spoon and add water to create the consistency of mud. Apply the mixture to the panels of the house from the bottom to the top. Press the daub into the weaving as it is applied. Apply the daub on the inside and the outside of each panel. Add a layer to the top of each panel. Lay a lolly stick on edge across the top of each panel in the daub. Set aside to dry.
6. To make a roof place straws across the top of the house and glue to the lolly sticks.

How does the strength of this house compare with a house made of

- a) Only straws
- b) Only paper