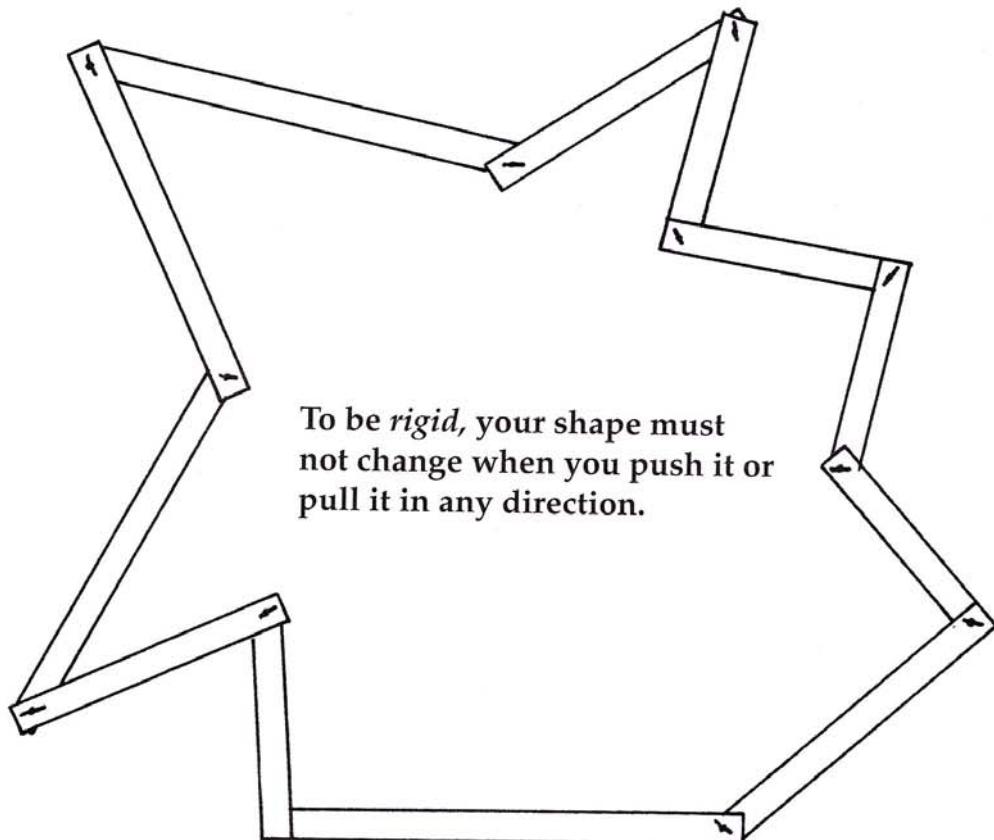


Wood, a strong material, can be made even stronger by being fitted together in a rigid shape. You can find out more about rigid shapes.



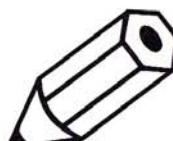
WHAT TO DO:

Use paper fasteners to fit together 12 geo-strips to make a 12-sided closed shape. Now challenge your work partner to add as many more geo-strips as she needs to make the shape *rigid*.



RECORDING YOUR WORK:

1. Draw the rigid shape and show where the extra geo-strips have been added. Colour in any triangular areas that you see in the shape.
2. Can you make a shape using any number of geo-strips which does not need any extra geo-strips to make it rigid?



Look out for triangular shapes in the structure of your school.

A TRIANGLE IS A VERY POWERFUL SHAPE.



A constructional joint is a way of joining material together. These joints are often used to join wood together in making furniture.

WHAT TO DO:

Study the constructional joints drawn on this sheet. Working with a partner, look inside, behind and underneath any wooden furniture in your classroom to see if any of these joints have been used in making it.

