



Name: Form:

Based on pages 14 and 15 of *Properties of materials*

Twig test

Try this...

1. Look at the twigs you have been given and divide them into groups based on how they appear. Do not bend them.
2. Decide on names for the groups and write them in the left hand column of the table. Try to choose names that describe the twigs, such as long, oak twigs, etc.

Name of group	No. of twigs	Predicted No. of brittle twigs	Actual No. of brittle twigs

3. Count the number of twigs in each group, and record the numbers in the second column of the table.
4. Predict how many twigs you think are brittle in each group and record your predictions in the third column of the table.
5. Start with the group at the top of the table and bend each twig in that group in turn. When you have bent them all, record in the right hand column how many are brittle.
6. Repeat task 5 with each of the other groups.

Looking at the results.

7. How accurate were your predictions?



8. What do your results show?





