

Genes

1. Variation

CONCEPT 1

TEST YOURSELF

VARIATION WITHIN A SPECIES

KNOW

- Q1 Define 'Species'.
- Q2 List 5 characteristics that vary in humans.
- Q3 List 5 characteristics that vary in oak trees.

APPLY

- Q4 For each of the characteristics you listed in Q2, state whether it is an example of continuous variation or discontinuous variation.
- Q5 For each of the characteristics you listed in Q3, state whether it is an example of continuous variation or discontinuous variation.
- Q6 Plot the data in the table below on tongue rolling onto a suitable graph. What type of variation does this data show?

Tongue Rolling	Number of People in year 7
Can roll tongue	240
Cannot roll tongue	110

Q7 Plot the data on height from the table below onto a suitable graph. What type of variation does this data show?

Height (cm)	Number of people
To 129	5
130-134	10
135-139	29
140-144	39
145-149	50
150-154	55
155-159	50
160-164	40
165-169	20
170-174	8

EXTEND 

- Q8 Describe an investigation you could carry out to see if there is a link between a student's height and their shoe size.
- Q9 Why is the sample size important when investigating variation?