

# Genes

# 4. Inheritance

## CONCEPT 1

## TEST YOURSELF

### DNA, CHROMOSOMES AND GENES

#### KNOW

Q1 Starting with the smallest, put these structures in order of size.

**DNA, cell, nucleus, chromosome, gene**

Q2 Draw lines to link the terms to the definitions.

nucleus

long strand of DNA

chromosome

cell component which stores genetic material

DNA

section of DNA that codes for a characteristic

gene

chemical which contains all of the information needed to make an organism

#### APPLY

Q3 State what is meant by a gene.

Q4 Describe how DNA is organised inside the nucleus.

#### EXTEND

Q5 Draw a timeline showing the key steps in the discovery of DNA.

Q6 Explain how scientists worked together to discover the structure and function of DNA.

Q7 Suggest 3 benefits from scientists knowing all the genes in a human genome.