## What is a chromosome? Check the correct answer. a) Cell organelle that handles cellular respiration.

b) Element of the nucleus that contains hereditary information.

Genes and chromosomes

- c) Membrane surrounding the cell nucleus
- d) Code supplying hereditary information
- **2.** What is a gene? Check the correct answer.
  - a) Unit of hereditary information located on a chromosome
  - **b)** An individual's entire genetic code
  - c) Organelle containing information about the cell
  - d) Complex molecule shaped like a double helix
- **3.** Indicate if each statement refers to genes or chromosomes.
  - a) Human beings have tens of thousands of them.
  - **b)** Human beings have 23 pairs of them.
  - c) They are responsible for hereditary traits.
  - d) They are segments of DNA (deoxyribonucleic acid).
- 4. What is a hereditary trait?

Name:

A characteristic that is transmitted from one generation to another.

**5.** Give three examples of hereditary traits.

Answers will vary. Examples: Eye colour, shape of the face, height as an adult

6. Rank the following elements from smallest to largest.

Cell	Gene	Chromosome	Nucleus
Gene, chromosome, nucleus, cell			

... SUPPORT ACTIVITIES - CYCLE ONE ...

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 $\checkmark$ 

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 $\checkmark$ 

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Genes	
Chromosomes	
Genes	
Genes	