DNA

Name: _____

Date:

Worksheet 4 Chromosome, DNA & Gene (Nelson p.30-31)

1. Match the given vocabulary with the explanations or descriptions below.

chromosomes

- (a) ______ are made from DNA.
- (b) ______ are materials found in chromosomes that carry the genetic code that determines the characteristics of a living thing.

gene

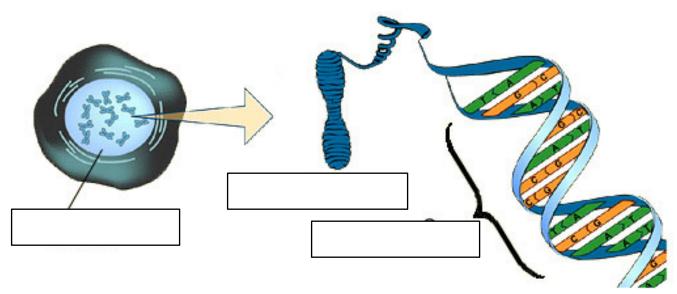
nucleus

- (c) A ______ is a short section of DNA.
- (d) Chromosomes are located in the ______.
- 2. Label the following diagram using the vocabulary below to show the relationship between cell, its nucleus, chromosomes and genes.

chromosomes

gene

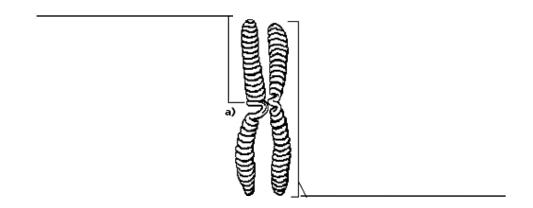
nucleus



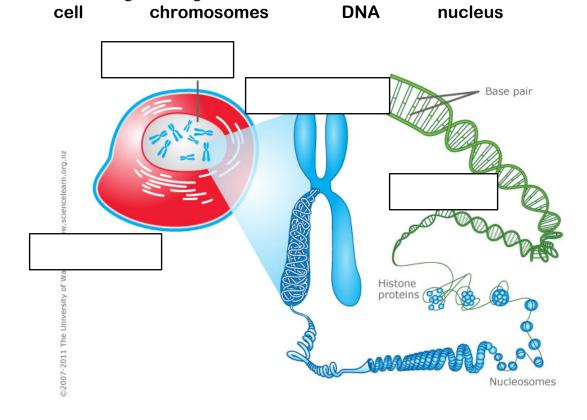
3. Label the diagram using the word list below.

centromere

chromosome



4. Label the diagram using the word list below.



Complete the sentences below.

2.	Humans have (how many?) chromosomes; pairs of chromosomes.	(how many?)
•	Every child receives one set of chromosomes from his chromosomes from his	_ and another set of
•	If a cell of a cow contains 60 chromosomes, each parent will contribute (how many?) chromosomes to the cow during fertilization.	
5.	DNA Mutation is	
)•	Mutagen is	_
	Examples are and	
•	What happens if a mutation occurs in a sperm or an egg cell ? If a mutation occurs in a sperm or an egg cell,	