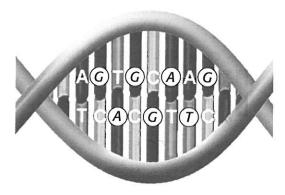
ANSWER KEY



7. In a DNA molecule, nitrogen bases are always linked in the same pairs. Indicate the rule for these parings:

Adenine is always linked to thymine and cytosine is always linked to guanine.

- **8.** How is the genetic code determined? By the order of the different nitrogen bases on the DNA strands
- **9.** The following diagram represents the double-helix structure of DNA. Complete the diagram by showing, on each nucleotide, the abbreviation of the corresponding nitrogen base.



Genes

- 10. Define "gene." A segment of DNA that determines a particular genetic characteristic
- 11. What makes up a gene? A variable number of nucleotide pairs
- **12.** Examples of genetic characteristics determined by genes: *Eye colour, instructions for producing certain substances, especially proteins*
- **13.** At what point does a person pass on genes to his or her descendants? *During sexual reproduction*
- **14.** Indicate the term for an individual's entire set of genes: Genome

ANSWER KEY



Chromosomes

5.	Define "chromosome." Each DNA molecule in the nucleus makes up a chromosome. The
	chromosome is a structure that contains an individual's DNA and, as a result, his or her
	genes.
	3
16.	Chromosomes come in pairs. One chromosome in the pair comes from the mother,
	and the other chromosome in the pair comes from the
17.	Number of chromosome pairs in each human cell, with the exception of
	reproductive cells:
	23 pairs of chromosomes, for a total of 46 chromosomes
	of
18.	Chromosome pairs that are the same size and have the same appearance: Similar or homologous chromosomes
	Similar of Homologous Cironosomes
19	Number of pairs of homologous chromosomes:
17.	a) In men: 22 pairs
	b) In women: 23 pairs
	b) in women.
20.	What is special about the 23rd chromosome pair? The 23rd pair is made up of
	reproductive chromosomes. In women, these chromosomes are homologous and are
	identified as two X chromosomes. In men, the 23rd pair is different: one is an X
	chromosome and the other is a Y chromosome.
21.	cells contain chromosome pairs.
22.	Haploid cells contain a single copy of each chromosome.
-	All all is all a large land and a suith the expension of reproductive cells
23.	All cells in the human body are diploid cells, with the exception of reproductive cells.
	Diploid cells are also called cells.
24	Haploid cells such as ova and spermatozoa are also called
47.	reproductive cells.
	CCIIS.