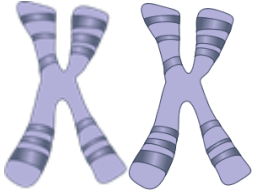
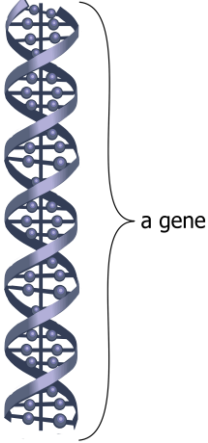



**Task 1**

Complete the missing work sentences using your knowledge and the missing words below.

<b>chromosomes</b>		<p>Chromosomes are found inside the _____ of a cell.</p> <p>There are _____ pairs of chromosomes in every human body cell.</p> <p>One of each pair of chromosomes comes from each _____.</p> <p>Chromosomes are made up of long lengths of _____.</p>
<b>genes</b>		<p>A gene is a short section of a _____.</p> <p>Each gene _____ for a different _____.</p> <p>Genes work in _____. There are different versions of each gene, one is often _____ over the others.</p>
<b>DNA</b>		<p>DNA is short for _____.</p> <p>It is a long chain _____ that is made up of a combination of _____ DNA bases.</p> <p>DNA has a special structure called a _____.</p>

**Missing words**

4      DNA      pairs      double      nucleus      characteristic      chromosome

23      codes      helix      molecule      parent      dominant      deoxyribonucleic acid

**Task 2**

Draw lines to match up the beginning and the end of the sentences relating to chromosomes, genes and DNA.

**DNA is short for ...**

... called a double helix.

**Chromosomes contain many  
genes that ...**

... deoxyribonucleic acid.

**Genetic material is found...**

... 4 DNA bases.

**There are 23 pairs ...**

... controlled by genes.

**DNA is a molecule made up of a  
combination of ...**

... of a chromosome.

**We inherit our genes ...**

... code for our characteristics.

**Each gene is a short section ...**

... long coiled chains of DNA.

**Chromosomes are made up of ...**

... of chromosomes in the  
nucleus of a body cell.

**DNA has a special structure ...**

... in the nucleus of each cell.

**Our characteristics are ...**

... from our parents.

**Task 3 – dominoes game**

Cut up the cards and complete each sentence.

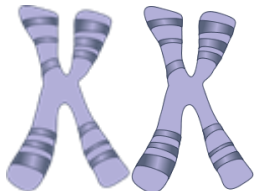
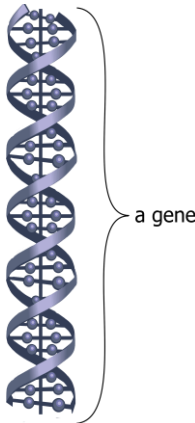

... controlled by genes.	<b>START:</b> DNA is short for ...
... in the nucleus of each cell.	There are 23 pairs ...
... deoxyribonucleic acid.	Chromosomes contain many genes that ...
... of chromosomes in the nucleus of a body cell.	DNA is a molecule made up of a combination of ...
... from our parents.	Each gene is a short section ...
... code for our characteristics.	Genetic material is found...
... 4 DNA bases.	We inherit our genes ...
... long coiled chains of DNA.	DNA has a special structure ...
... called a double helix.	Our characteristics are ...
... of a chromosome.	Chromosomes are made up of ...

## Teaching notes and answers

This activity sheet can be used to introduce the topic of chromosomes, genes and DNA (with teacher explanation) or could be used as part of a recap lesson. It covers the basic structure of chromosomes, genes and DNA and some key facts.

Task 3 is a dominoes game which could be used as an alternative to Task 2. Cut up the cards before the lesson to save time.

### Task 1

chromosomes		<p>Chromosomes are found inside the <b>nucleus</b> of a cell.</p> <p>There are <b>23</b> pairs of chromosomes in every human body cell.</p> <p>One of each pair of chromosomes comes from each <b>parent</b>.</p> <p>Chromosomes are made up of long lengths of <b>DNA</b>.</p>
genes		<p>A gene is a short section of a <b>chromosome</b>.</p> <p>Each gene <b>codes</b> for a different <b>characteristic</b>.</p> <p>Genes work in <b>pairs</b>. There are different versions of each gene, one is often <b>dominant</b> over the others.</p>
DNA		<p>DNA is short for <b>deoxyribonucleic acid</b>.</p> <p>It is a long chain <b>molecule</b> that is made up of a combination of <b>4</b> DNA bases.</p> <p>DNA has a special structure called a <b>double helix</b>.</p>

## Task 2 and 3 answers

**DNA is short for ...** deoxyribonucleic acid.

**Chromosomes contain many genes that ...** code for our characteristics.

**Genetic material is found ...** in the nucleus of each cell.

**There are 23 pairs ...** of chromosomes in the nucleus of a body cell.

**DNA is a molecule made up of a combination of ...** 4 DNA bases.

**We inherit our genes ...** from our parents.

**Each gene is a short section ...** of a chromosome.

**Chromosomes are made up of ...** long coiled chains of DNA.

**DNA has a special structure ...** called a double helix.

**Our characteristics are ...** controlled by genes.