

# DNA

## Worksheet 1

1. When watching a detective film, do you know why the investigators always look for strands of hair or any other material left behind by the suspect?
2. Before we learn about DNA let's read about scientist who discovered it. Go online

[http://www.bbc.co.uk/history/historic\\_figures/crick\\_and\\_watson.shtml](http://www.bbc.co.uk/history/historic_figures/crick_and_watson.shtml)

[http://www.ducksters.com/biography/scientists/watson\\_and\\_crick.php](http://www.ducksters.com/biography/scientists/watson_and_crick.php)

read the information and take notes.

3. What is DNA? Let's find out:

What does DNA mean?	
What is DNA made of?	
What is the shape of DNA molecule?	
What is DNA code?	
What are genes?	
What are chromosomes?	
What information is in DNA?	
How is information encoded in DNA?	

Go online and watch a video about DNA:

<http://www.popsci.com/science/article/2013-03/watch-absolutely-beautiful-animated-explainer-dna>

Did you know...

- About 99.9 percent of the DNA of every person on the planet is exactly the same. It's that 0.1 percent that is different that makes us all unique.
- A parent and child share 99.5% of the same DNA.
- You have 98% of your DNA in common with a chimpanzee.
- A DNA fingerprint is a set of DNA markers that is unique for each individual except identical twins.
- Identical twins share 100% of their genes.
- If you unraveled all the DNA molecules in your body and placed them end to end, it would stretch to the Sun and back several times.