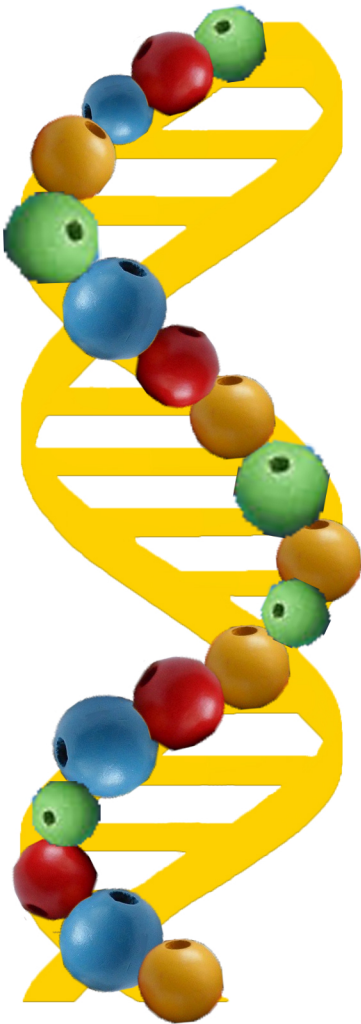


# DNA Beads

This activity takes about 5 mins plus an introduction



## Intro:

This activity demonstrates how DNA is unique to each of us and that nobody has the same DNA.

## The Science:

DNA carries genetic material and is found in the nucleus of a cell. DNA is made up from 4 bases, cytosine, thymine, adenine, guanine and it's the order of these bases that determine a gene. Genes are responsible for how we look through to how our body works and we inherit genes from our parents. It's estimated that humans have around 20,000-25,000 genes each one having a different role. The nucleus of a cell contains 23 pairs of chromosomes, a chromosome is made up of a single strand of DNA that is coiled around proteins called histones to maintain its shape.

## What you will need:

Beads: red, blue, yellow, green  
Thread/elastic & keyring chain

## Instructions:

Use the following template and get people to thread a coloured bead onto some elastic depending on their answers.

CHARACTERISTIC	COLOURED BEAD
Hair colour: Brown	Blue
Black	Green
Blonde	Yellow
Red	Red
Hair texture: Straight	Yellow
Curly	Blue
Wavy	Green
Eye colour: Green	Green
Blue	Blue
Brown	Red
Freckles: Yes	Red
No	Yellow
Can roll tongue: Yes	Green
No	Blue