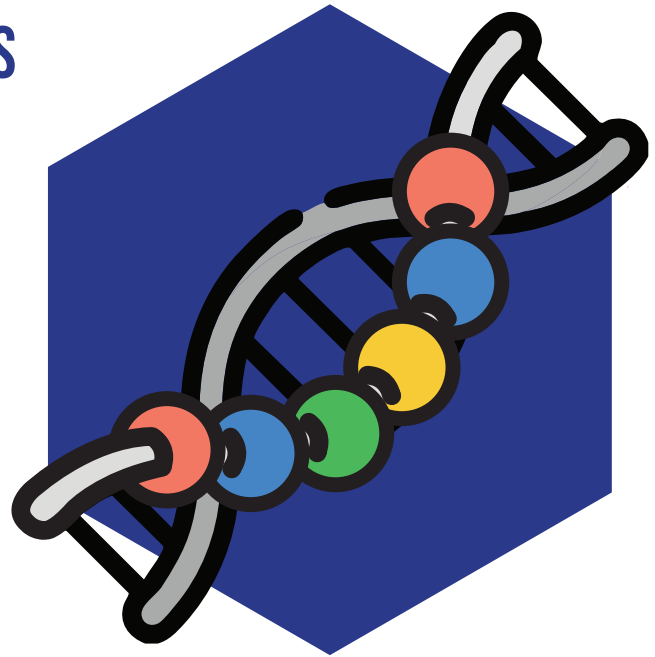




DNA beads



INTRODUCTION

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

This activity takes

5

mins

plus an introduction

INSTRUCTIONS

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

| CHARACTERISTICS | COLOURED BEAD |
|--|--|
| HAIR COLOUR: Brown Black Blonde Red | Blue Green Yellow Red |
| HAIR TEXTURE: Straight Curly Wavy | Yellow Blue Green |
| EYE COLOUR: Green Blue Brown | Green Blue Red |
| FRECKLES: Yes No | Red Yellow |
| CAN ROLL TONGUE: Yes No | Green Blue |

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