



Fun DNA

BOX NOTICE

Name of the activity	Fun DNA
Activity duration	1h30
Material needed	Sequence 1 - Twizzlers or liquorice sticks (for the sugar-phosphate backbone) - Gummy bears or marshmallows (for the nitrogenous bases) - Toothpicks or skewers (to connect the candies) Sequence 2 - Colored beads or candies (two different colours for each trait) - Punnett square template (drawn on paper or printed out)
Number of pupils involved (per box)	2 /box

Step 1: Preparation

You may start the sequence by showing your pupils pictures with different photographs of different people (race, ethnicity). Ask students how these persons are similar or different.

Step 2: Storytelling resources

Begin discovering the box by reading the story "The woman who discovered the structure of life". Ask the children what information they took away and what they found most interesting in this story.



TECHNOLOGY

Step 3: Creation of the 3D DNA model (for Sequence 1):

Following the instructions in “How to create elements” students will create the 3D DNA model.

ALTERNATIVE (for sequence 2):

An activity to teach kids about Punnett squares, a tool used in genetics to predict the outcomes of genetic crosses, can be done using coloured beads or candies to represent different alleles. Punnett squares help scientists and geneticists predict the likelihood of certain traits appearing in offspring based on the traits of the parents. It's like a game board that helps us understand how genes are passed down from generation to generation.

Follow the instructions from “How to create elements”.

This hands-on activity helps kids understand the basics of genetic inheritance and how Punnett squares can be used to determine the probability of specific traits appearing in offspring. It's a fun and interactive way to introduce genetics concepts to children.

