

# IZDELAVA MODELA DNA

## 1. Potrebujeteš:

- kartonast tulec brisačke
- večji, ne pretrd karton
- lepilo, škarje, 6 barvnih flumastrov, ravnilo

## 2. Potek dela:

- Na karton narišemo pravokotnik 10x20 cm
- Na 5 cm naredimo vzdolžno črto in narišemo 1 cm rob na vsaki strani
- Na vsake 2 cm naredimo oznake, nato jih prečno povežemo in dobimo 10 baznih parov, ki jih poljubno narišemo ter pobarvamo
- Nato jih prestrižemo po parih in robove zavijamo levaga nazaj, desnega naprej
- Tulec prestrižemo po liniji zlepljanja in ga damo na polovico (vzdolžno), ter ponovno razpolovimo po dolžini (pazi, da se tulec zavija nazaj). Če je trak preširok ga damo še enkrat na polovico po dolžini. Dobimo dva ožja spiralno zavita trakova, previdno ju zvijemo, da ohranimo spiral. (En gre v eno in drug v drugo smer).
- Označimo 2 cm odseke – narišemo črte, ki jih še razpolovimo. Na en kvadrat napišemo S (sladkor), na drugrga P (fosfatna skupina). S pobarvamo z eno in P z drugo bravo.
- Trakove nato ponovno zvijemo v spiralo in vmes nalepimo organske baze, tako, da bo stik  $90^\circ$   
Stran z označenimi nukleotidi

Tudi prvo lepi pod kotom.

Druge pare prilepiš vertikalno, tako, da so organske baze navpično s sladkorjem.

# MAKING A DNA MODEL

## 1. You need:

- a cardboard tube
- a larger, not too hard cardboard
- glue, scissors, 6 coloured felt-tip pens, ruler

## 2. Procedure:

- Draw a rectangle 10x20 cm on the cardboard.
- Make a vertical line of 5 cm and draw a 1 cm edge on each side.
- Make horizontal lines every 2 cm and get 10 base pairs, which can be drawn and coloured as you wish.
- Then cut them horizontally in pairs and fold the edges left back, right forward.
- Cut the cardboard tube along the gluing line and if the tube is still too wide cut it in half vertically again.
- Mark the 2 cm sections and draw lines. Write S (sugar) on one square and P (phosphate group) on the other. S is painted with one colour and P with another colour.
- The strips are then folded into a spiral. The organic bases are glued in between so that the contact is at a 90° angle.  
Side with labelled nucleotides

Glue the first one at an angle as well.

The other pairs are glued vertically, so that the organic bases are vertically with the sugar.