



Handmade DNA: a tactile model to explore the basics of DNA

Activity 1: DNA structure question time

1. What does the WOODEN BLOCK correspond to?

2. What does the WIRE correspond to?

3. What do they form together?

4. How do nitrogenous bases pair with each other? Can mistakes be made?

5. Do the two pairs of nucleotides (A-T and G-C) bind with the same strength?

6. Are the two strands identical?



Optional extra questions:

7. Do the bonds between ribose and phosphate change if the nucleotide sequence changes?

8. Is it possible to recognize a direction in each strand of the model?

9. In the real DNA molecule, which types of bond form between the nucleobases?
