

The Synthesis of Macromolecules... as Easy as a Card Game!

Activity developed at Cégep de Lévis-Lauzon

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This activity consists in building various macromolecules (polysaccharide, polypeptide, phosphoglycerolipid, triacylglycerol, RNA and DNA polynucleotide) using playing cards. The cards represent the various monomers that make up the macromolecules, energetic molecules and catalysts required for the formation of bonds.

This activity allows students to consolidate their learnings about the basic structure of the major macromolecules that make up living things, and the importance of catalysts and energy supply when these macromolecules are synthesized by a cell. The activity's originality lies in the format of the educational material used, i.e. a card game. As students are required to develop various strategies and interact with their opponents, they learn while having fun.