

Learn about DNA and RNA
using our unique manipulatives

Appropriate for secondary
school and higher education



About the models

Our models are designed to teach processes, in addition to structure. They are made to be manipulated, so learners can perform cellular functions with their own hands.

Lessons are appropriate for middle school, high school, AP Biology, and adult levels. Diverse populations including English language learners, nurses, and judges have all found the lessons an engaging way to learn difficult concepts.



About the curriculum

Booklet 1 Activities:

- Name the parts of a nucleotide
- Assemble the double helix structure
- Discover the base pairing rule
- Complete basic DNA replication
- Copy DNA into mRNA messages
- Decode messages in DNA and RNA
- Compare genes and amino acid sequences

Booklet 2 Activities:

- Discover 3' and 5' DNA structure
- Assemble triphosphate nucleotides
- Replicate DNA with leading and lagging strands
- Damage DNA using free radicals
- Repair oxidative DNA damage
- Create 4 kinds of mutations: missense, nonsense, silent, and frameshift

Classroom Set: \$1000

- 14 DNA/RNA Kits
- 14 Booklet 1
- 14 Booklet 2
- 14 Gene Strips
- 14 Codon Card Sets
- Storage Crate

*Cost includes shipping
to U.S. destinations*

*Protein and tRNA Sets
for protein synthesis
coming soon!*

Download curriculum materials online:
<http://edgerton.mit.edu/DNA-proteins-sets>



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