# BEDGERTON

## **Biotechnology Pack**

Additional curriculum for the DNA/RNA Set\*



### About the models

Our models are designed to teach molecular processes, as well as structure. This Biotechnonology Pack extends the use of the DNA/RNA Sets. Now learners can also simulate biotechnology procedures in the lab with the models.

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#### About the curriculum

#### **Booklet 3 Activities:**

- Identify the 3' and 5' DNA ends
- Practice restriction enzyme digestions
- Model gel electrophoresis
- Use DNA fingerprinting to compare sequences
- Perform PCR cycles
- Demonstrate Sanger sequencing with dideoxynucleotides
- Simulate the CRISPR-Cas9 System

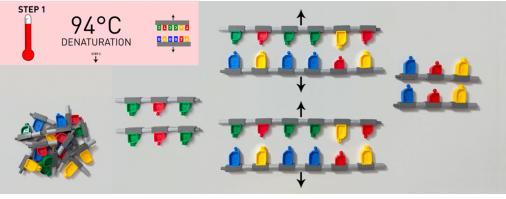
#### Classroom Set: \$400

14 DNA/RNA Booklet 3

- 14 Phage DNA Strips
- 14 Gel Electrophoresis Mats
- 14 Cas9 Protein Mats

### NOTE: DNA/RNA Set must be purchased separately!\*

Price includes shipping to continental U.S. only. Shipping to additional destinations will require additional costs.



**Massachusetts** 

Institute of

Technology

\*DNA/RNA Classroom Set: \$1200 See website for additional information



Find additional resources online: <u>http://edgerton.mit.edu/DNA-proteins-sets</u>

Curriculum questions: <u>kathymv@mit.edu</u>

Purchasing questions/Ordering: edgerton-k12-info@mit.edu