



## Unit 5 Molecules to Organisms

### Grade 6 Science

#### Unit Description:

Students will describe the atomic composition of simple molecules and extended structures and provide evidence that living things are made of cells. Students will also describe the function of cells and describe the cycle of matter and flow of energy into and out of various ecosystems.

#### Science Standards:

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| <b>6-MS-PS1-1</b> | Develop models to describe the atomic composition of simple molecules and extended structures.                                     |
| <b>6-MS-LS1-1</b> | Conduct an investigation to provide evidence that living things are made of cells, either one or many different numbers and types. |
| <b>6-MS-LS1-2</b> | Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.          |
| <b>6-MS-LS2-3</b> | Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.             |

#### Enduring Understandings- Unit Anchor Phenomenon:

The Yellow Sea is turning green in China.

#### Essential Questions- Reflective Summaries:

- What impacts do algal blooms have on the ecosystems in China and other areas?
- What role do phytoplankton play in the Yellow Sea turning green?
- How do the cellular structures and functions allow algal blooms to grow?
- How have humans altered environments in such a way that growth of algal blooms occurs?
- What solutions may impact the overgrowth of algal blooms?