# Next-Generation Science Standards (NGSS) Correlations

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| **Article** | **NGSS** |
| **The Sweet Science of Candymaking** | |  | | --- | | **HS-PS1-5.**  Apply scientific principles and evidence to provide an explanation about the effects of changing the temperature or concentration of the reacting particles on the rate at which a reaction occurs. |   **Crosscutting Concepts:**   * Patterns * Stability and Change   **Science and Engineering Practices:**   * Constructing explanations and designing solutions * Developing and using models   **Nature of Science:**   * Science models, laws, mechanisms, and theories explain natural phenomena. |
| **Performance-Enhancing Drugs: Is Winning Everything?** | |  | | --- | | **HS-ETS1-3.**  Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts.  **Crosscutting Concepts:**   * Structure and Function   **Science and Engineering Practices**:   * Constructing explanations and designing solutions   **Nature of Science**:   * Science addresses questions about the natural and material world. * Science is a human endeavor. | |
| **The Starting Line for a Drug-Free Athlete** | |  | | --- | | **HS-ETS1-3.**  Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts. |   **Crosscutting Concepts:**   * Cause and Effect * Structure and Function   **Science and Engineering Practices:**   * Analyzing and interpreting data * Obtaining, evaluating, and communicating information   **Nature of Science:**   * Science addresses questions about the natural and material world. |
| **Do You Know about BVO?** | |  | | --- | | **HS-PS1-3.**  Plan and conduct an investigation to gather evidence to compare the structure of substances at the bulk scale to infer the strength of electrical forces between particles.  **Crosscutting Concepts:**   * Cause and Effect * Structure and Function   **Science and Engineering Practices:**   * Analyzing and interpreting data * Obtaining, evaluating, and communicating information   **Nature of Science**:   * Science models, laws, mechanisms, and theories explain natural phenomena. | |
| **Shampoo: From Lab to Shower** | |  | | --- | | **HS-PS1-3.**  Plan and conduct an investigation to gather evidence to compare the structure of substances at the bulk scale to infer the strength of electrical forces between particles. | | **Crosscutting Concept:**   * Structure & Function * Systems and System Models   **Science and Engineering Practices**:   * Constructing explanations and designing solutions   **Nature of Science**:   * Science models, laws, mechanisms, and theories explain natural phenomena. | |