# Next-Generation Science Standards (NGSS) Correlations

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| **Article** | **NGSS** |
| **The Sweet Science of Candymaking**  |

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| **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.
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| **Performance-Enhancing Drugs: Is Winning Everything?** |

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| **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.
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| **The Starting Line for a Drug-Free Athlete**  |

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| **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.
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| **Do You Know about BVO?** |

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| **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.
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| **Shampoo: From Lab to Shower**  |

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| **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.
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