**February/March 2016 Issue**

**Correlations to the Next Generation Science Standards**

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| **Article** | **NGSS** |
| **Biomimicry: Taking Inspiration from Nature**  |

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| **HS-PS2-6.**Communicate scientific and technical information about why the molecular-level structure is important in the function of designed materials.**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. |

**Disciplinary Core Ideas:*** PS1.A Structure of matter
* PS2.A Forces and Motion
* PS2.B Types of Interactions
* ETS1.C Optimizing the Design Solution

**Crosscutting Concepts:** * Cause and effect: Mechanism and explanation
* Scale, proportion, and quantity
* Structure and Function

**Science and Engineering Practices:** * Constructing explanations (for science) and designing solutions (for engineering)

**Nature of Science:** * Science addresses questions about the natural and material world.
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| **Stuck on You** |

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| **HS-PS2-6.**Communicate scientific and technical information about why the molecular-level structure is important in the function of designed materials.**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.**Disciplinary Core Ideas**:* PS1.A Structure of matter
* PS2.A Forces and Motion
* PS2.B Types of Interactions
* ETS1.C Optimizing the Design Solution

**Crosscutting Concepts:** * Cause and effect: Mechanism and explanation
* Structure and Function

**Science and Engineering Practices**: * Constructing evidence (for science) and designing solutions (for engineering)

**Nature of Science**: * Science addresses questions about the natural and material world.
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| **Shaking Out the Facts about Salt** |

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| **HS-LS1-3.**Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.**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. |

**Disciplinary Core Ideas**:* Structure and Function
* Developing Possible Solutions

**Crosscutting Concepts:** * Systems and System Models
* Stability and Change

**Science and Engineering Practices:** * Constructing explanations (for science) and designing solutions (for engineering)

**Nature of Science:** * Scientific knowledge is open to revision in light of new evidence.
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| **Kombucha: Something’s Brewing**  |

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| **HS-LS1-2.**Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.**Disciplinary Core Ideas**:* LS1.A Structure and Function

**Crosscutting Concepts:** * Systems and System Models
* Cause and effect: Mechanism and explanation

**Science and Engineering Practices:** * Obtaining, evaluating, and communicating information

**Nature of Science**: * Science models, laws, mechanisms, and theories explain natural phenomena.
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| **Let’s Talk about E-Cigarettes** |

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| **HS-LS1-2**Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. |
| **Disciplinary Core Ideas**:* LS1.A Structure and Function

**Crosscutting Concepts:** * Systems and System Models
* 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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