***Uncovering Student Ideas* Probe Collections- Grade K\***

**LIFE SCIENCE**

**LS1.C Organization for Matter and Energy Flow in Organisms**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Is It an Animal? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Concept of an animal |
| Is It a Plant? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Concept of a plant |
| Seeds in a Bag | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Plants’ need for water, closed system, seed germination |
| Is It Living? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Concept of living |

**EARTH AND SPACE SCIENCE**

**ESS2.E Biogeology**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Can a Plant Break Rocks?  (can be modified for use with K) | [*Uncovering Student Ideas in Earth and Environmental Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-earth-and-environmental-science) | Weathering, how plants can change their environment |

**ESS3.A Natural Resources**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Do They Need Air? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Animals’ need for air |

**ESS3.B Natural Hazards**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Probes will be added to this DCI when *Uncovering Student Ideas in Primary Science- Vol. 2* is released in 2023. | | |

**ESS3.C Human Impacts on Earth Systems**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Probes will be added to this DCI when *Uncovering Student Ideas in Primary Science- Vol. 2* is released in 2023. | | |

**PHYSICAL SCIENCE**

**PS2.A Forces and Motion**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Marble Roll | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Describing motion |

**PS2.B Types of Interactions**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| When Is There Friction? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | friction |

**PS3.B Conservation of Energy and Energy Transfer**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Probes will be added to this DCI when *Uncovering Student Ideas in Primary Science- Vol. 2* is released in 2023. | | |

**PS3.C Relationship Between Energy and Forces**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Probes will be added to this DCI when *Uncovering Student Ideas in Primary Science- Vol. 2* is released in 2023. | | |

**ENGINEERING**

**ETS1.A Defining and Delimiting Engineering Problems**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Probes will be added to this DCI when *Uncovering Student Ideas in Primary Science- Vol. 2* is released in 2023. | | |

**ETS1.B Developing Possible Solutions**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Probes will be added to this DCI when *Uncovering Student Ideas in Primary Science- Vol. 2* is released in 2023. | | |

**CONNECTIONS TO ENGINEERING, TECHNOLOGY, AND APPLICATIONS OF SCIENCE**

|  |  |  |
| --- | --- | --- |
| **Name of Probe** | **Source** | **Concepts addressed** |
| Who Engineers? | [*Uncovering Student Ideas About Engineering and Technology*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-engineering-and-technology) | What engineers do |
| Is a Brick a Rock? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Technology, distinguishing human designed objects from naturally made |