***Uncovering Student Ideas* Probe Collections- Grade 2\***

**LIFE SCIENCE**

**LS2.A Interdependent Relationships in Ecosystems**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| Seeds in a Bag | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Plants depend on water |
| Needs of Seeds  (can be modified for gr. 2) | [*Uncovering Student Ideas in Science- Vol. 2*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-volume2) | Needs of seeds |

**LS4.D Biodiversity and Humans**

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| **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. | | |

**EARTH AND SPACE SCIENCE**

**ESS1.C The History of Planet Earth**

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| **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. | | |

**ESS2.A Earth Materials and Systems**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| What Are Mountains Made of? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Landforms, rock, Earth materials |
| Describing Soil | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Soil, Earth materials |

**ESS2.C The Roles of Water in Earth’s Surface Processes**

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| **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**

**PS1.A Structure and Properties of Matter**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| Is It Matter? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Matter |
| Is It Matter?  (can be modified for Gr. 2) | [*Uncovering Student Ideas in Science- Vol. 1*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-volume1) | Matter |
| Matter or Not Matter?  (can be modified for Gr. 2) | [*Uncovering Student Ideas about Matter and Energy*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-physicalscience-matter-and-energy) | Matter |
| Solids, Liquids, and Gases  (can be modified for Gr. 2) | [*Uncovering Student Ideas about Matter and Energy*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-physicalscience-matter-and-energy) | States of matter |
| Sink or Float? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Properties of matter, sinking and floating |
| Watermelon and Grape | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Properties of matter, sinking and floating |

**PS1.B Chemical Reactions**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| Back and Forth | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Reversible and nonreversible changes |

**ENGINEERING**

**ETS1.B Developing Possible Solutions**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| Engineers’ Models  (can be modified for gr. 2) | [*Uncovering Student Ideas About Engineering and Technology*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-engineering-and-technology) | Drawings, physical models, and other models engineers use |

**ETS1.C Optimizing the Design Solution**

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| **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**

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| **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 |