***Uncovering Student Ideas* Probe Collections- Grade 1\***

**LIFE SCIENCE**

**LS1.A Structure and Function**

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| **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 |
| Is It Made of Parts? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | External parts of plants and animals |
| Is It Living? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Concept of living |

**LS1.B Growth and Development of Organisms**

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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. | | |

**LS1.D Information Processing**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| Senses | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Animal and plant responses |

**LS3.A Inheritance of Traits**

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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. | | |

**LS3.B Variation of Traits**

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| **Name of Probe** | **Source** | **Concepts addressed** |
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**EARTH AND SPACE SCIENCE**

**ESS1.A The Universe and Its Stars**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| What Lights Up the Moon? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Seeing the Moon |
| When Is the Next Full Moon? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Pattern of Moon Phases |

**ESS1.B Earth and the Solar System**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| When Is My Shadow the Longest? | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Shadows, apparent movement of the Sun |

**PHYSICAL SCIENCE**

**PS4.A Wave Properties**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| Rubber Band Box | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Sound, vibration, pitch |
| Making Sound  (can be modified for Gr. 1) | [*Uncovering Student Ideas in Science- Vol. 1*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-volume1) | Sound, vibration |

**PS4.B Electromagnetic Radiation**

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| **Name of Probe** | **Source** | **Concepts addressed** |
| Shadow Size | [*Uncovering Student Ideas in Primary Science*](https://www.uncoveringstudentideas.org/books/formative-assessment-probes/uncoveringstudentideas-primary) | Light, shadow |

**PS4.C Information Technologies and Instrumentation**

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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 |