



## Grade 1

### 3.3.1.A Earth and Space Sciences: Earth's Place in the Universe

**Students who demonstrate understanding can** *use observations of the sun, moon, and stars to describe patterns that can be predicted.*

**Clarifying Statement:** Examples of patterns could include that the sun and moon appear to rise in one part of the sky, move across the sky, and set; and stars other than our sun are visible at night but not during the day.

**Assessment Boundary:** Assessment of star patterns is limited to stars being seen at night and not during the day.

Science and Engineering Practices (SEP)	Disciplinary Core Ideas (DCI)	Crosscutting Concepts (CCC)
<b>Analyzing and Interpreting Data</b> Analyzing data in K–2 builds on prior experiences and progresses to collecting, recording, and sharing observations. <ul style="list-style-type: none"> <li>Use observations (firsthand or from media) to describe patterns in the natural world in order to answer scientific questions.</li> </ul>	<b>The Universe and Its Stars</b> <ul style="list-style-type: none"> <li>Patterns of the motion of the sun, moon, and stars in the sky can be observed, described, and predicted.</li> </ul>	<b>Patterns</b> <ul style="list-style-type: none"> <li>Patterns in the natural world can be observed, used to describe phenomena, and used as evidence.</li> </ul> <hr/> <b>Connections to Nature of Science</b> <b>Scientific Knowledge Assumes an Order and Consistency in Natural Systems</b> <ul style="list-style-type: none"> <li>Science assumes natural events happen today as they happened in the past.</li> <li>Many events are repeated.</li> </ul>

**Pennsylvania Context:** N/A

**PA Career Ready Skills:** Distinguish among a set of short-term, mid-range, and long-term goals.

### Connections to Other Standards Content and Practices

Standard Source	Possible Connections to Other Standard(s) or Practice(s)
<b>Agriculture (AFNR)</b>	CS.02.01.01.a: Research and describe different types of geographic data used in AFNR systems.
<b>Science, Environmental Literacy and Sustainability (NAAEE)</b>	K-4 Strand 1.C. Collecting information: Learners locate and collect information about the environment and environmental topics.
<b>PA Core Standards: ELA</b>	CC.1.4.1.V: Participate in individual or shared research and writing projects. CC.1.4.1.W: With guidance and support, recall information from experiences or gather information from provided sources to answer a question. CC.1.5.1.A: Participate in collaborative conversations with peers and adults in small and larger groups.



Standard Source	Possible Connections to Other Standard(s) or Practice(s)
PA Core Standards and Practices: Math	MP.2: Reason abstractly and quantitatively. CC.2.4.1.A.4: Represent and interpret data using tables/charts.
PA Standards: Social Studies	8.3.1.C: Identify examples of change.
Educational Technology (ISTE)	1.3. Knowledge Constructor: Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.
Technology and Engineering (ITEEA)	STEL-1A: Compare the natural world and human-made world.