SCILLSS Classroom Science Assessment Workshop

# Grade 5 Unpacking Tool Activity Directions

To complete the Unpacking Tool Activity, use the **Grade 5** **Partially Completed Unpacking Tool**. To complete the tool for the given standard, sort the statements below into the appropriate dimension (SEP, DCI, CCC) and section (*Key Aspect* or *Prior Knowledge*) on the tool. Use the recommended resources listed in the PowerPoint presentation. Note the statements are organized by dimension below to support your work.

## Science and Engineering Practices

* Analyze data to make predictions.
* Represent data in tables.
* Use and share pictures, drawings, and/or writings of observations.
* Use mathematics to analyze data.
* Represent data in various graphic displays (bar graphs, pictographs and/or pie graphs).
* Interpret data to make sense of phenomena.
* Use data tables to describe patterns that show relationships.
* Use observations (firsthand or from media) to describe patterns and/or relationships in the natural and designed world(s) in order to answer scientific questions and solve problems.
* Use graphical displays (bar graphs, pictographs and/or pie charts) to describe patterns that show relationships.

**Disciplinary Core Ideas**

* Stars other than our sun appear in the sky.
* As the seasons change, so do the patterns of stars in the nighttime sky.
* As Earth moves around the sun and rotates on its axis, changes such as the movement of shadows can be observed.
* There are daily changes in the length and direction of shadows.
* The stars in the sky change as the Earth’s position changes in relation to the sun.
* As Earth moves around the sun and rotates on its axis, changes such as nightly, monthly, and seasonal movements of the stars can be observed.
* Seasonal temperature is in relation to the amount of daylight Earth receives at different times of the year.
* As Earth moves around the sun and rotates on its axis, changes such as nightly, monthly, and seasonal movements of the moon can be observed.

## Crosscutting Concepts

* Patterns in the natural and human designed world can be observed, used to describe phenomena, and used as evidence.
* Differences in patterns can be used to sort simple rates of change (natural phenomena and designed products).
* Similarities in patterns can be used to analyze simple rates of change (natural phenomena and designed products).
* Differences in patterns can be used to analyze simple rates of change (natural phenomena and designed products).
* Similarities in patterns can be used to classify simple rates of change (natural phenomena and designed products).
* Identify patterns in data.

These unpacking tool activity directions were developed with funding from the US Department of Education under Enhanced Assessment Grants Program CFDA 84.368A. The contents do not necessarily represent the policy of the US Department of Education, and no assumption of endorsement by the Federal government should be made.   
  
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