

# Where to Use PHENOMENA!

## STEM ACTIVITY CARDS

K-2

### For All Learners

#### Classroom Activities

- 1 Warm-Up:**  
Completed upon entering the classroom, connecting to previous or upcoming science content and sparking discussion.
- 2 Reinforcement:**  
Solidifies understanding of specific science concepts taught in class.
- 3 Extension:**  
Integrates science concepts into other subjects and expands learning beyond a science unit.
- 4 Station Rotation:**  
Phenomena station focused on specific science concepts with hands-on STEM tools.



#### Enrichment

Challenging activities for advanced learners to explore science concepts in greater depth and apply them in new content areas.



#### Intervention

Hands-on activities with peer support using STEM tools, targeting specific science concepts for those needing additional practice.



#### English Language Learners

Engage diverse learners with captivating images that speak a universal language.

### Additional Learning Opportunities



#### After School

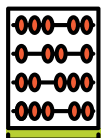
Challenging activities that leverage STEM tools for meaningful exploration during after-school and clubs.



#### Indoor Recess

Dynamic interactive activities for students to enjoy during indoor recess.

### Integration Ideas Across Content Areas



#### MATH

Explore measurement, problem-solving, spatial reasoning, graphing, and data analysis concepts.

#### READING

Connect non-fiction reading to STEM concepts (e.g., weather, seasons, life cycles, natural disasters, landforms) and engage in the research process using informational text related to these phenomena.



#### WRITING

Journal about STEM work and thinking (e.g. planning, thoughts, ideas, questions, learning reflections, and potential modifications to investigations).

#### TECHNOLOGY

Integration embedded within activities, making this resource suitable for technology-focused time in the classroom, library, and Specials.



#### ARTS

Supplemental activities and assessments using these cards are included, making them a valuable addition to the arts.

### ..... What teachers are saying about Phenomena! .....

“ The **Phenomena cards** are an excellent way to **get students to think deeper, ask questions, and make connections** between STEM and their everyday lives. These cards are a **great addition to a station rotation model** allowing students to collaborate without a ton of planning or setup! I appreciate how easy, fun, and engaging the cards are. ”

“ I used the **Phenomena STEM [activity] cards** with my first graders during a literature unit we did on the book, *Recess at 20 Degrees Below* by Cindy Lou Aillaud. **After reading the story, I added cards** that pertained to weather and seasonal changes to my literacy center rotation. **My students loved them and were actively engaged.** ”