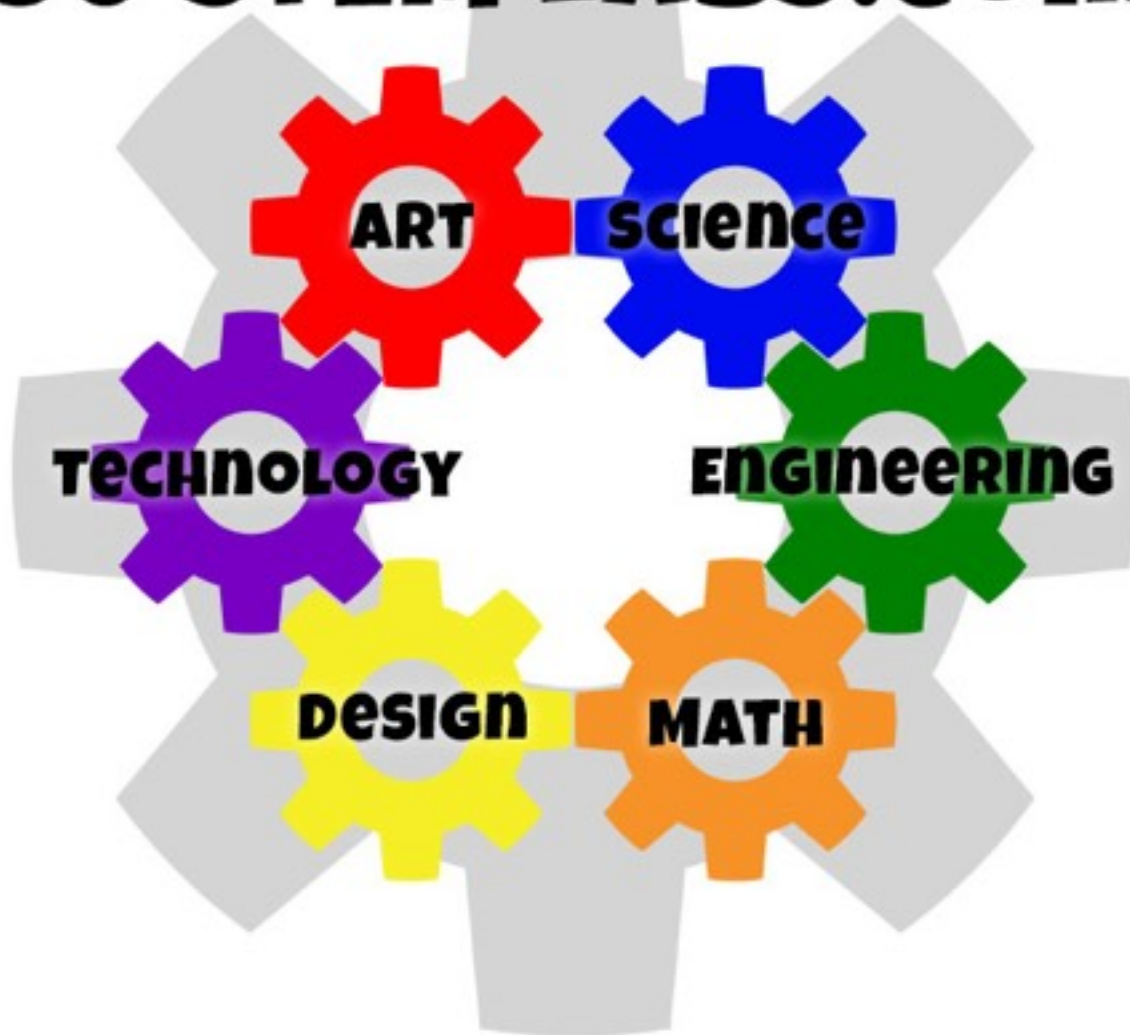


50 STEM LABS.COM



What is STEM to me?

- Minimally Invasive
- Highly Useful
- Inexpensive
- Easy to Set Up
- Creative Learning Activities
- Modifiable for Different Grade Levels
- Ties to Other Subjects & Standards
 - Math: measurement, time, graphing, geometry
 - Science: physics, engineering, observation and reflection journals
 - Language: writing, reading of related topical books and fiction, thematic units
 - Technology: research, internet, presentations

Wood & Clay Towers

Materials: small baggies with toothpicks and clay

Instructions: make the tallest towers possible from the materials given

Primary Grades Activity:

- partner or individual
- measure and share successes
- drawings and basic reflections in journals
- read related stories before/after

Secondary Grades Activity:

- partner or small groups (kagan groups?)
- blueprint and sketch ideas first
- journal reflections and observations
- measure and compare results with numbers
- reports on architecture or building methods

Note Card Dead Lifts

Materials: note cards and tape, books

Instructions: tape note cards into geometric tube shapes, turn them on their side (open end up), add weight and see what the crushing point is.

Primary Grades Activity:

- partner or individual
- measure and share successes
- drawings and basic reflections in journals
- read related stories before/after

Secondary Grades Activity:

- partner or small groups (kagan groups?)
- blueprint and sketch ideas first
- journal reflections and observations
- measure and compare results with numbers
- reports on architecture or building methods

NAME:

WHAT DID YOU DO?

WHAT DID YOU LEARN?

DRAW A PICTURE OF YOUR EXPERIMENT:

GRADE / COMMENTS:

STEM Physics and Engineering Science Labs Journal

NAME:

OBSERVATION:

OBSERVATION:

OBSERVATION:

OBSERVATION:

OBSERVATION:

OBSERVATION:

GRADE / COMMENTS:

STEM Physics and Engineering Science Labs Journal

NAME:

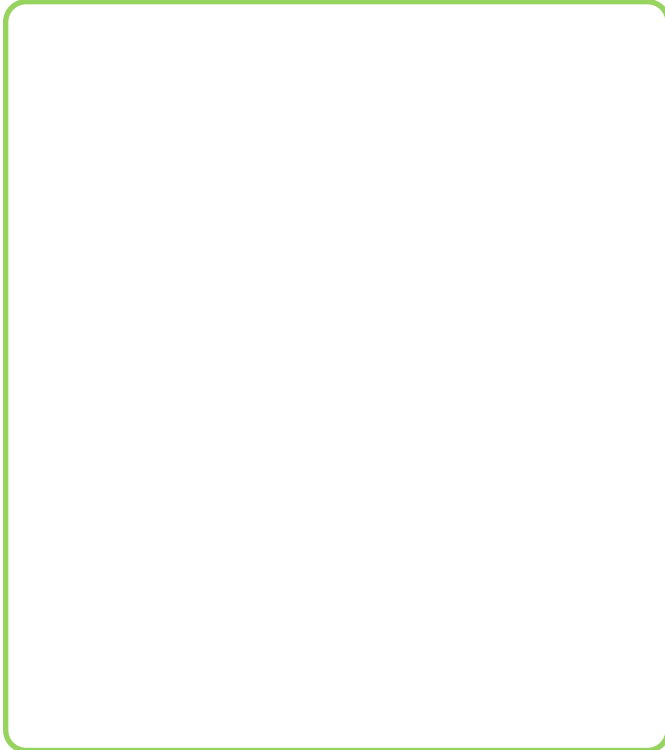
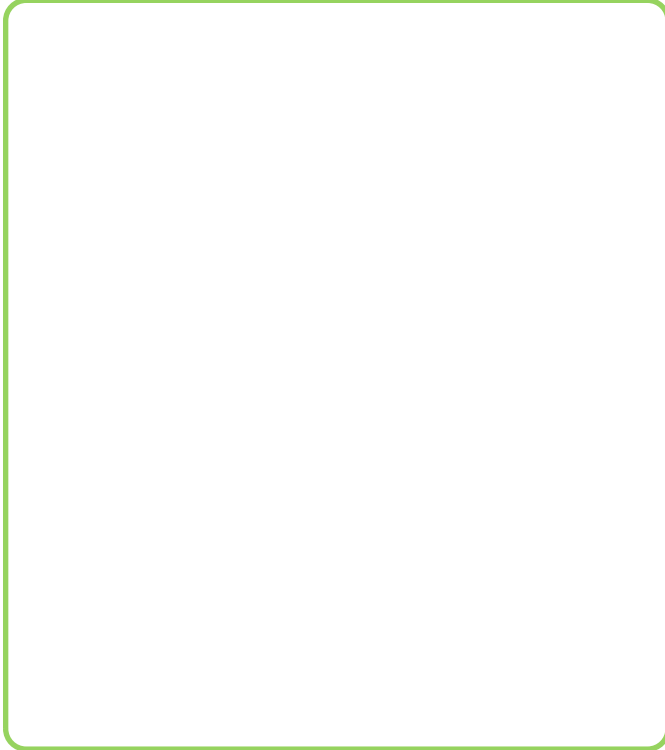
PROJECT:

DIAGRAMS AND PLANS:

GRADE / COMMENTS:

OBSERVATIONS PAGE

Use this page to record your data and observations from an activity.



OBSERVATIONS PAGE

Use this page to record your data and observations from an activity.

PREDICTIONS:

OBSERVATIONS:

CONCLUSIONS: