



Teacher Resource

Chemical Engineering

Grades K-2

We are so excited to have you utilize our Stem with Storm videos in your classroom! Innovation One and Education One have partnered together for some fun with our campus mascot, Storm, to share his love of learning with STEM- Science, Technology, Engineering and Mathematics with students near and far demonstrating some fun experiments directly aligned to Indiana State Standards!

The enclosed follow-up activities can be utilized for extended hands-on learning for your scholars. Our goal is to get those young brains thinking and spark the imagination and love of learning of future professionals!

Let's Learn Together with Storm!



A partnership of:



Indiana Standards Connection:

Science Standards:

K-2.E1: Pose questions, make observations, and obtain information about a situation people want to change. Use this data to define a simple problem that can be solved through the construction of a new or improved object or tool.

K-2.E.2: Develop a simple sketch, drawing, or physical model to illustrate and investigate how the shape of an object helps it function as needed to solve and identified problem.

K-2:E.3: Analyze data from the investigation of two objects constructed to solve the same problem to compare the strengths and weaknesses of how each performs.

Classroom Extension:



Experiment with Pennies

Materials needed: copper pennies, white vinegar, dish/bowl, paper towels, and salt

Turn Pennies Green Instructions:

- Fold a paper towel so that it fits inside your dish.
- Place the pennies on top of the paper towel.
- Pour vinegar over the pennies so that the paper towel is fully saturated.
- Observe the pennies over the next few hours and days. Record your observations and share with your family!
- Tip: The more days you wait, the more green they will become!

Clean Pennies Instructions:

- Create a solution of vinegar and salt using one teaspoon of salt and $\frac{1}{4}$ of a cup of vinegar. Mix until the salt is dissolved.
- Add several dull pennies
- Wait about 5 minutes, then remove the pennies from the solution and dry off.