Cycle 1 STEAM

Energy and Magnetism

3-PS2 Motion and Stability: Forces and Interactions: PS2-3- Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.

Week 1, Day 1: Phenomenon & What do you Wonder?

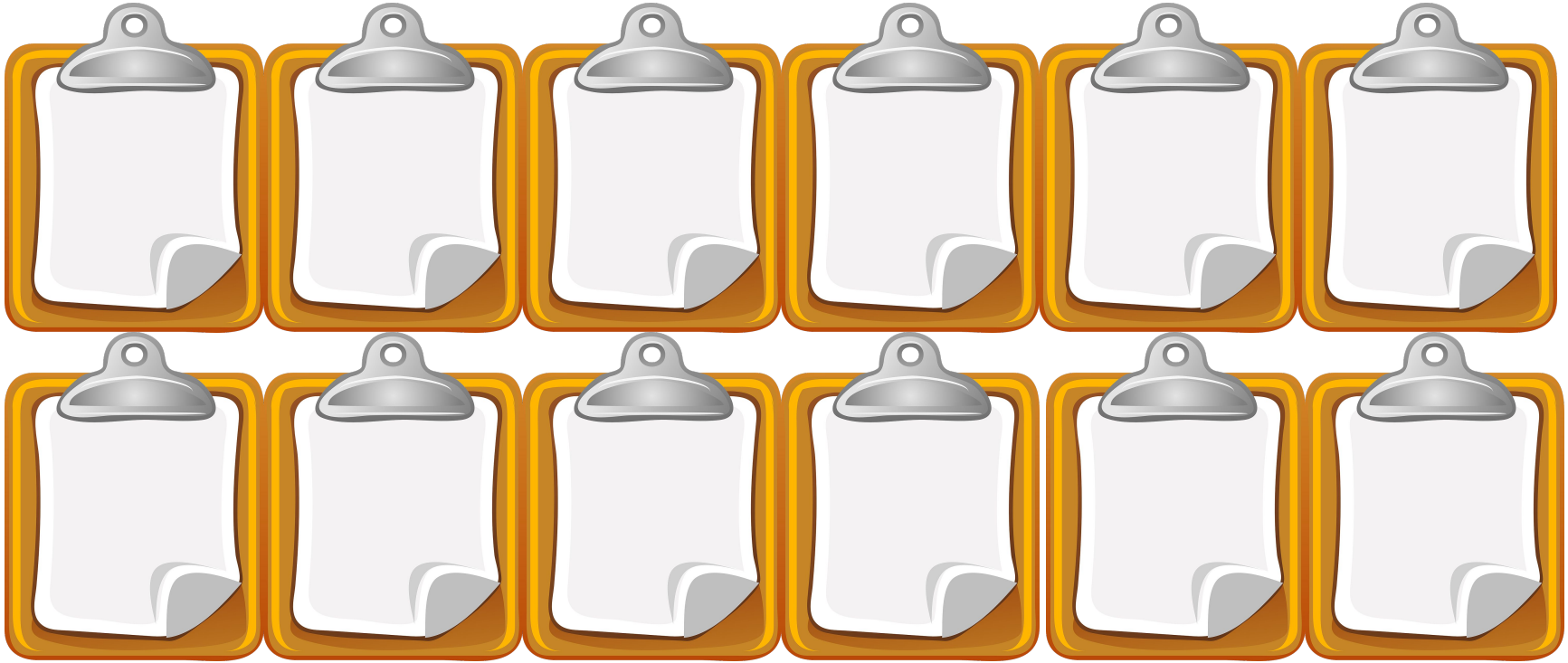
3rd Grade Standard:

3-PS2 Motion and Stability: Forces and Interactions: PS2-3- Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.

Phenomenon: How to make magnetic slime

- Recipe and Instructions

Wonder Board:



Week 1, Day 2: What do you know about the **Phenomenon** (write/draw)

Question Types: Let's put our questions into categories

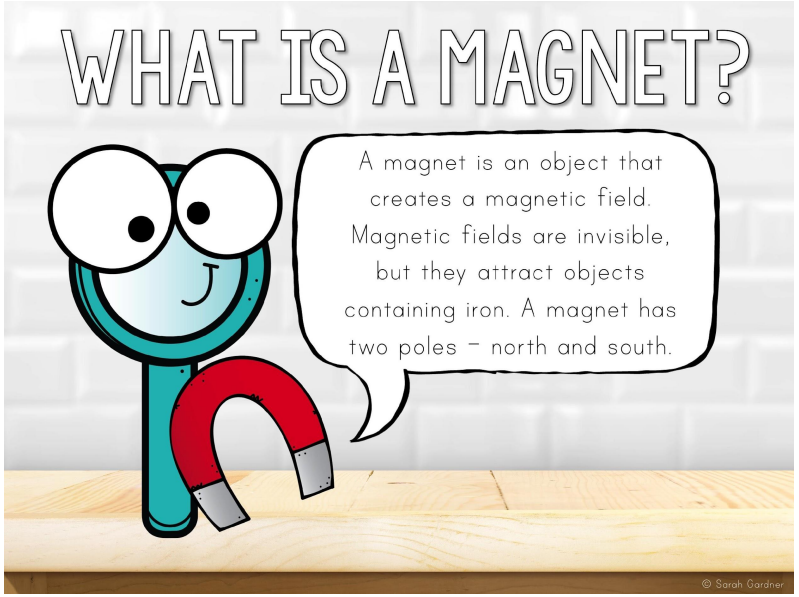
Patterns	Cause and Effect	Systems	Structure and Function	Energy and Matter	Stability Change	Scale and proportion Quantity

Can I test that question?

Week 2: What do you think? Creating Scientific Explanations

- Scientific Causes:
- Components of the system:
- How do those connections explain, describe, and predict

What do you think you could do with magnets that would be interesting? Trains, medicine, phones (?),



Week 3: How can you test it?

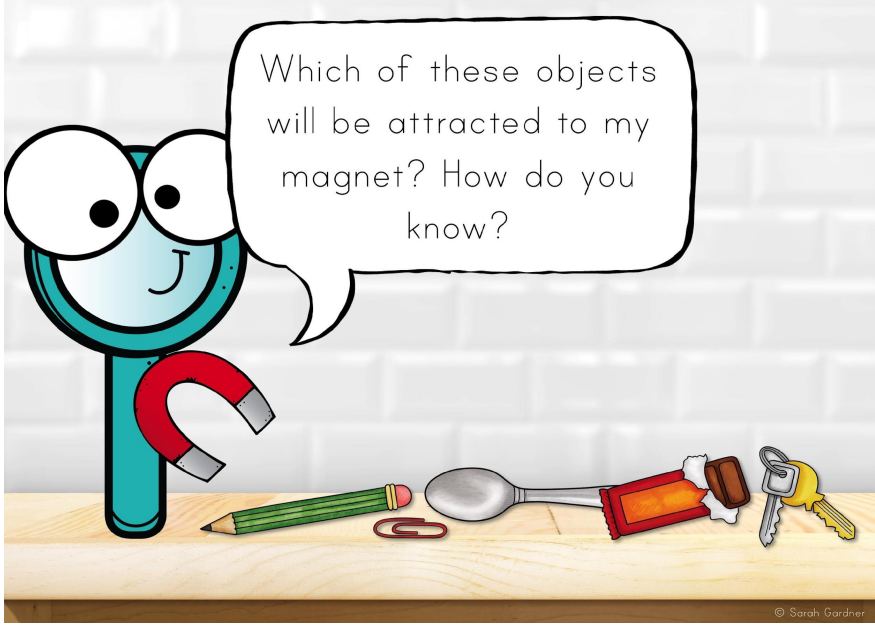
Investigate the phenomenon

Identify the evidence to be collected

Have a plan

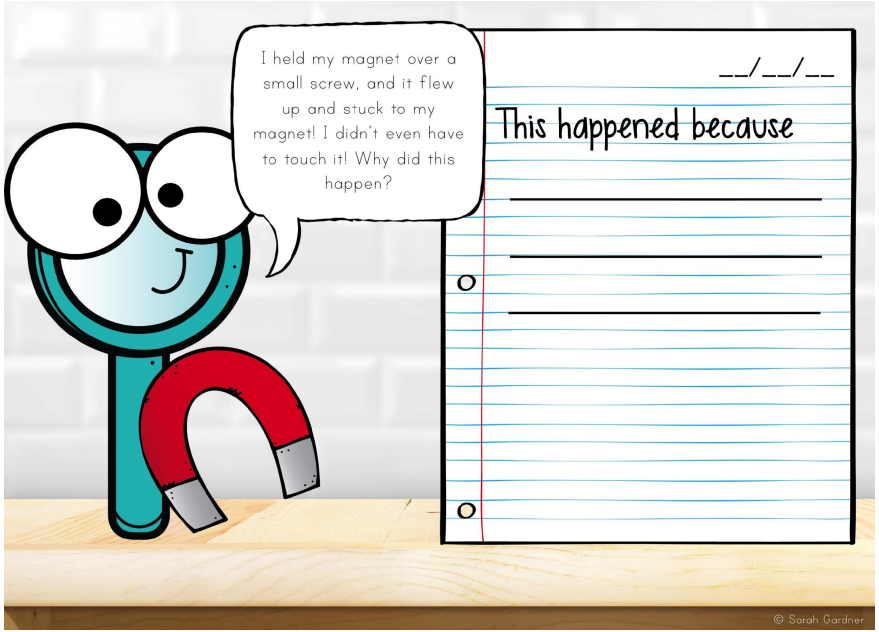
Collect evidence

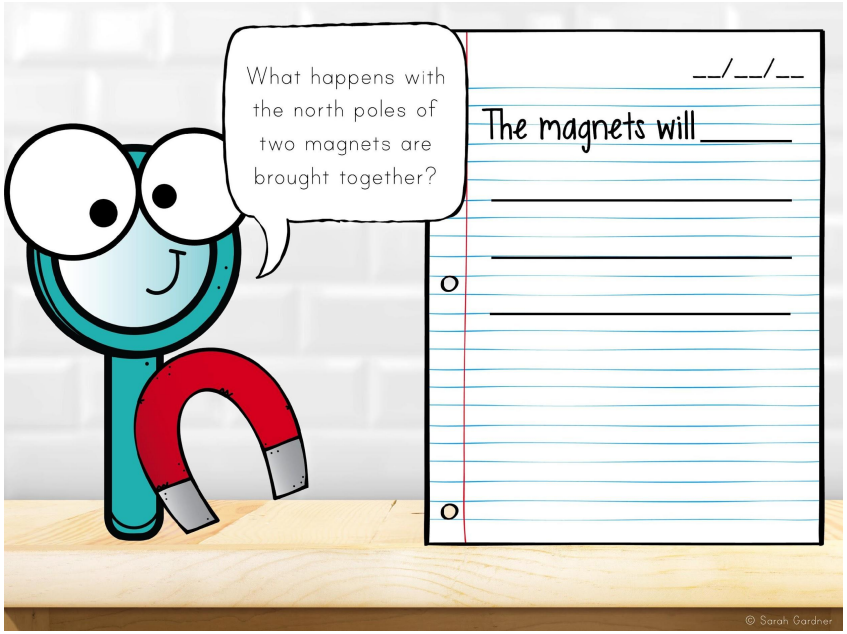
Improve design



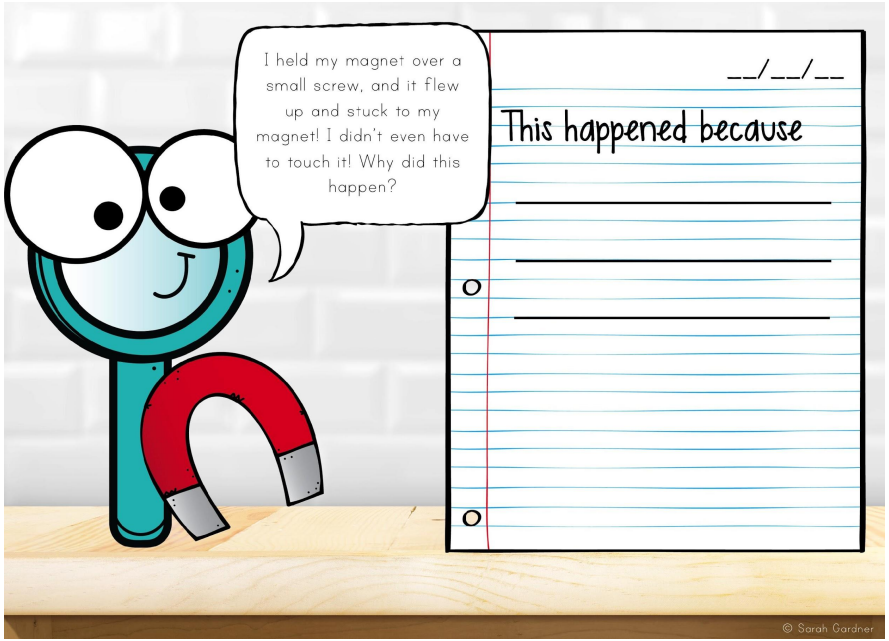
Week 3, Day 2: How can you test it?

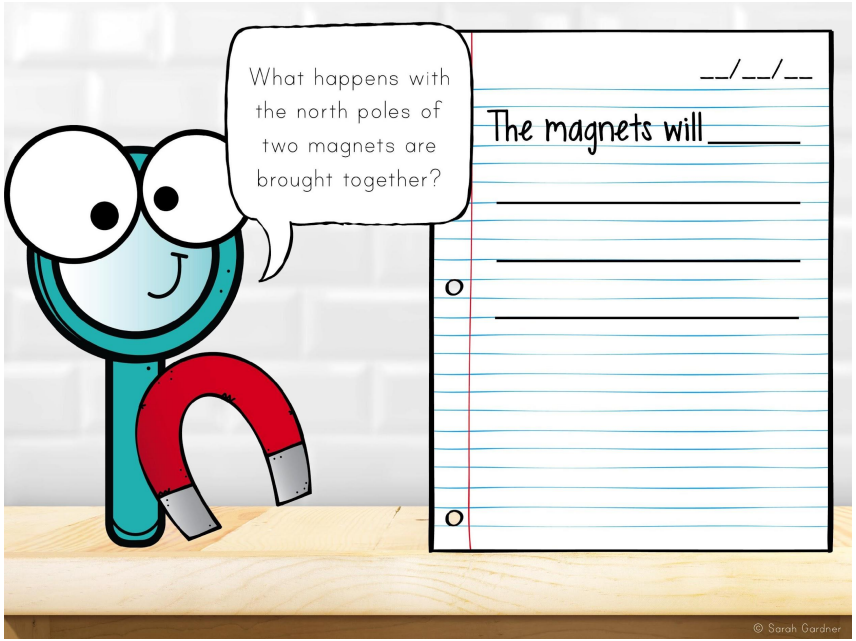
Week 3, Day 2: Write -How do you know?





Week 4 Day 1- Students Present Writing-





Week 4, Day 2 STEAM Challenge Project Planning

How would you like to work on this STEAM Challenge?

Individual Project- Break out Room 1

Partner Project (everyone must have a job/voice in the challenge): Break out Room 2

Team/Group Challenge (everyone must have a job/voice in the challenge): Break out Room 3

Create a system similar to our magnetic lock, present the system, and how it works using only supplies found in your home! (do not purchase anything extra).

Be prepared to talk about what went wrong, how you fixed or modified it, explain the system using our STEAM vocabulary. Repel, attract, magnet, magnetize, North/South pole.

Ideas- https://www.steampoweredfamily.com/magnet-experiments-for-kids/

https://frugalfun4boys.com/spinning-pen-magnet-science-experiment/

https://www.thebestideasforkids.com/magnet-experiment/

Week 5- Projects. In class work time.

Week 6: Present Findings Next STEAM Cycle starts 11/7

Presentations:	