

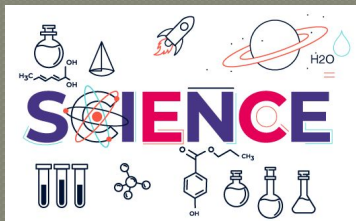
# What's the Scoop: Science and Technology



Mr. Andrew Scheid  
Mrs. Emily Meyer

Yinghua Academy  
Middle School

**Scheid**  
*SCIENCE*



# Science Team

**Mr. Andrew Scheid**

**11 years at Yinghua Academy  
5th and 6th Grade Science**



**Mrs. Emily Meyer**

**3 years at Yinghua Academy  
7th and 8th Grade Science**



# About Mr. Scheid

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- Middle School Science Teacher
  - Yinghua Academy Grades 5, 6, 7, 8
  - 2022-2023 is my 12<sup>th</sup> year at Yinghua
  - over 15 years of classroom teaching experience
- Masters Of Education
  - Framingham State University (study abroad)
- B.S. Biology
  - Northland College, Ashland WI
- Other Highlights:
  - Santa Cruz Cooperative School (Bolivia)
  - U.S. Forest Service, Superior National Forest

# About Mrs. Meyer

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- Middle School Science Teacher

- Yinghua Academy Grades 5 and 7
- 3rd year at Yinghua
- Taught in both China and America (speaks Chinese)

## Masters Of Science Education

- In-process- Hamline University

## B.S. Dietetics (Human Food and Nutrition)

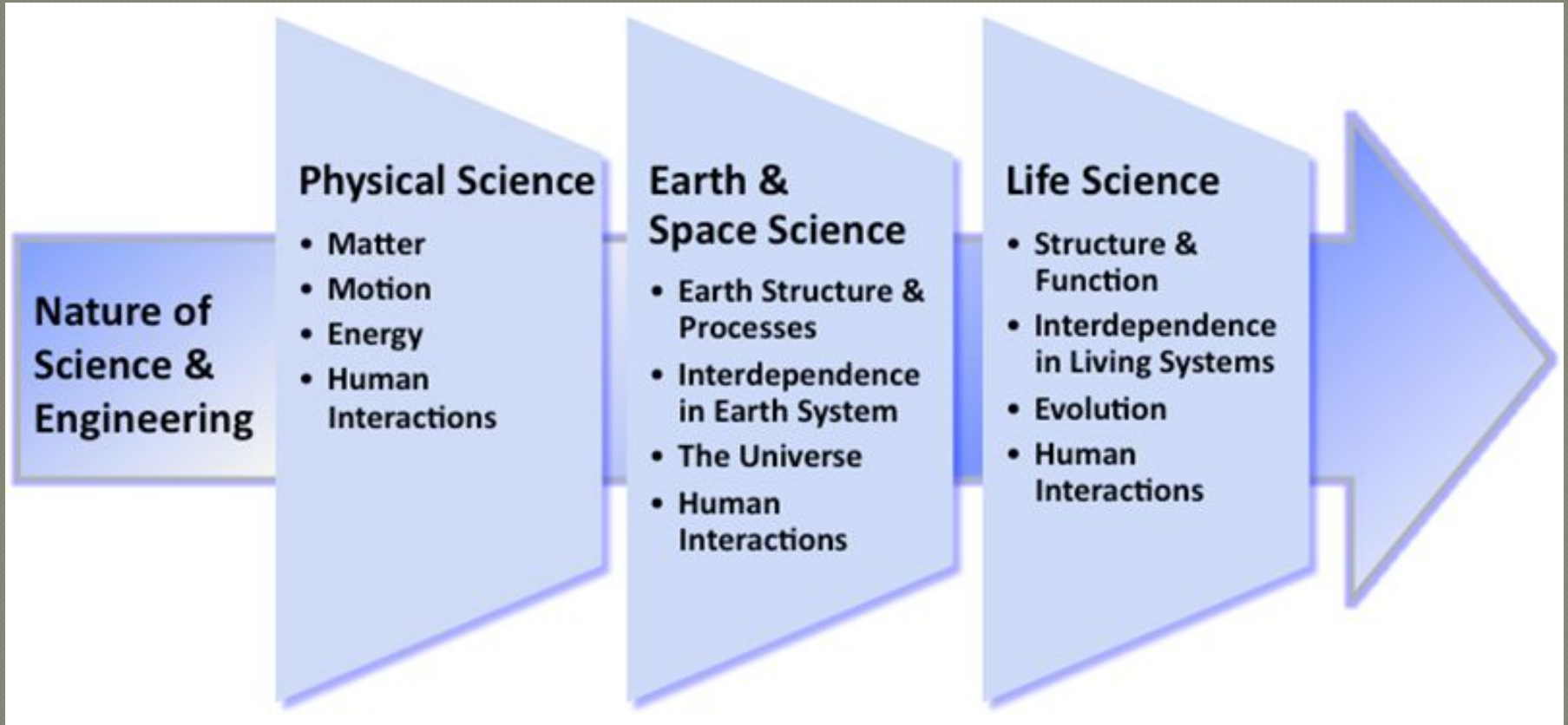
- University of St. Thomas, Houston, TX

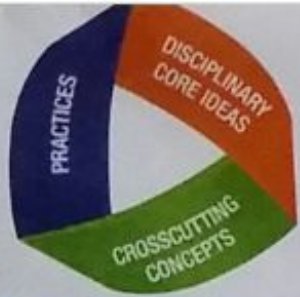
- Other Highlights:

- Lived in China for 10 years with my family (Beijing, Shanghai and Urumqi)
- I am also a licensed ESL teacher

# MN State Science Standards

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# Next Generation Science Standards

## Science and Engineering Practices

1. Asking questions (for science) and defining problems (for engineering)
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations (for science) and designing solutions (for engineering)
7. Engaging in argument from evidence

# Yinghua Academy Science Curriculum

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**5th Grade:** General Science

**6th Grade:** Earth Science and Chemistry

**7th Grade:** Life Science (Biology)

**8th Grade:** Physical Science and  
Engineering

# 5<sup>th</sup> Grade

Month	Grade 5: General Science
September	Scientific Method Life Science Intro
October	Plants: Structure and Function
November	Ecosystems and Biomes
December	Earth Science Water Cycle Weather
January	Solar System Earth, Moon, Sun
February	Landforms Weathering Erosion
March	Physical Science Force and Motion Energy
April	Matter: Particles States of Matter
May	Simple Machines Electricity Magnetism

- 3-4 sessions per week (160+ minutes)
- What to bring to class:
  - Science Notebook (SNB)
  - Science Folder (green)
  - HOMEWORK in SNB
  - Colored Pencils



# Science Notebook: The SNB

## DAILY DO NOW QUESTION

## WEEKLY VOCABULARY LIST

**4/3:**  
**What is a  
Force?**

**4/4:**  
**Describe Work:**

**4/5:**  
**What is a  
Machine?**

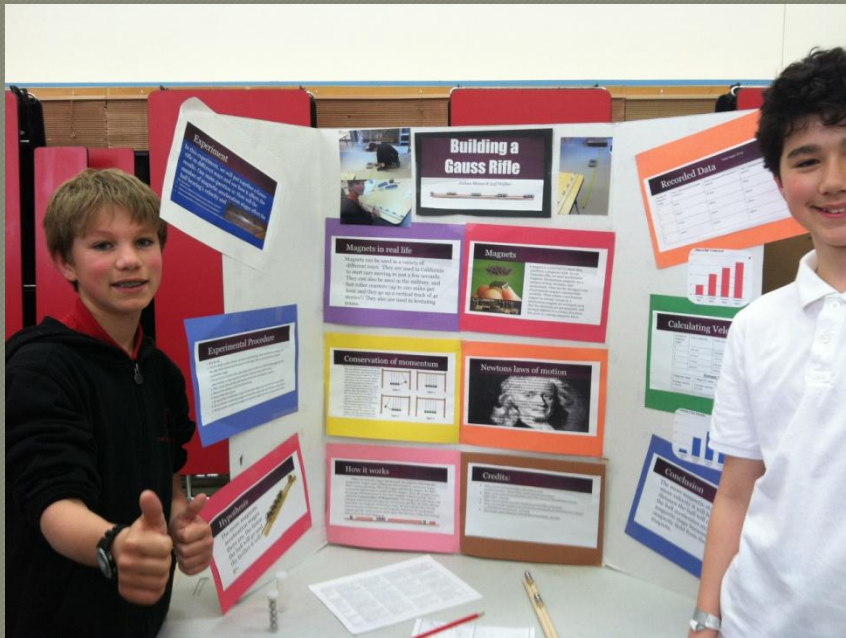
**4/6:**  
**Name the 6  
Simple  
Machines.**

- force:
- friction:
- gravity:
- equilibrium:
- load:
- work:
- power:
- machine:
- fulcrum:
- lever:
- inclined plane:

# Science EXPO Projects!

## MAGNETIC ACCELERATION

## TOFU-SION



# Science Lab Activities

## FLOWER DISSECTION

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## ELECTRICAL CIRCUITS

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# Science Lab Activities

## SIMPLE MACHINES

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## MAPS AND LANDFORMS

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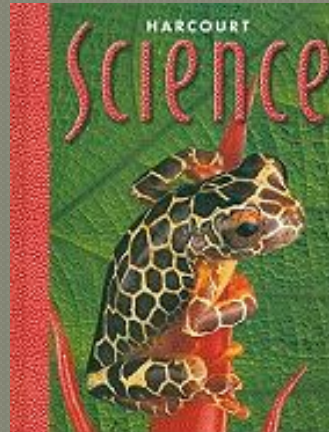
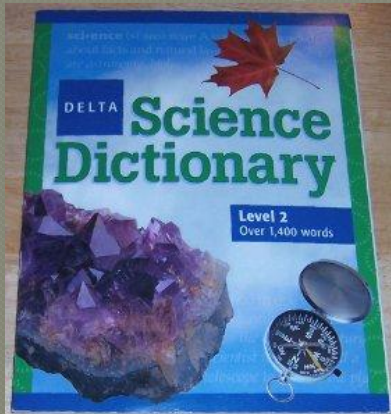


# Support Materials

- **Harcourt Science 5**

- Published 2000
- ISBN:
- 0-15-311208-5

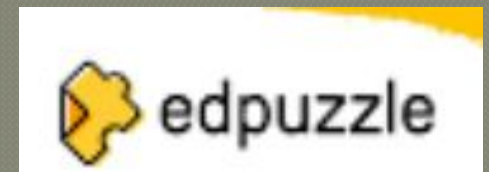
- **Delta Science Dictionary**



- **Hands-On Materials**

- Data Collection
- Measurement

- **Edpuzzle Online Videos**



# Questions and Answers

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What days will my child have Science?

Not sure.

How large is the universe?

Unknown.

What is the cause of turbulence?

Way too many variables.

Where do we go next?

Math, Chinese Rm#235