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# **STEM Curriculum**

(Updated December, 2023)

# **Grade K Curriculum Resources:**

1. <u>Vivify STEM</u>:

A. "Who is an Engineer or Scientist" STEM

Career Game: Lessons All Letters A-Z (each letter a lesson or multiple lessons)

**2.** Core Knowledge Units: A. Pushes & Pulls

B. Needs of Plants and Animals

C. Computers All Around Us

**3.** Hand2Mind Projects: A. Ron's Habitat Adventure

B. Ron's Ramp Adventure

C. Sidewalk Safety Exploration

#### **Grade 1 Curriculum Resources:**

**1. Vivify STEM:** A. "Stage 1 STEM Lessons"

-STEM Scavenger Hunt

-Tower Challenges

-STEM Task Cards

-Upstairs Downstairs Brain

-Building Bricks STEM Moon Base Challenge

B. "Stage 1 & 2 Mission to Mars"

-Up to 36 lessons



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**2. Core Knowledge Units:** A. Sun, Moon, and Stars

B. Plant and Animal Survival

**3. Hand2Mind Projects:** A. Seed Rescue Exploration

B. Project Park Design

C. Coding Mouse Exploration

D. Harmonica

E. Crab Claw

## **Grade 2 Curriculum Resources:**

**1. Vivify STEM:** A. "Stage 1 STEM" - Up to 7 lessons/projects

B. "Careers & Technology" - Up to 3 lessons/projects

C. "Stage 2 STEM Physical Science" - Up to 4 lessons/projects

D. "Stage 2 STEM Life Science" - Up to 7 lessons/projects

E. "Stage 3 STEM" - Animal Habitat & Biomes STEM Diorama

**2. Core Knowledge Units:** A. Simple Machines

B. Organisms & Their Habitats

C. Electricity & Magnetism

3. Hand2Mind Projects: A. Wild Feet Exploration

B. Sound Bite Exploration



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- C. Wrecking Ball
- D. Erosion Jar
- E. Butterfly Pollinator

## **Grade 3 Curriculum Resources:**

- 1. Vivify STEM: A. "Stage 1 STEM" Up to 2 lessons/projects
  - B. "Stage 1 & 2" Trip Around the World!" Up to 11 lessons/projects
  - C. "STEM Careers" Up to 2 lessons/projects
  - D. "Stage 2 & 3 STEM Ocean Study" Up to 4 lessons/projects
- 2. Core Knowledge Units: A. Investigating Forces
  - B. Investigating Matter
- **3. Hand2Mind Projects:** A. Spinner
  - B. Skydiver
  - C. Wave Box

## **Grade 4 Curriculum Resources:**

- 1. Vivify STEM: A. "Stage 1 STEM" Up to 7 lessons/projects
  - B. "Stage 2 STEM Space Science" Up to 6 lessons/projects
  - C. "Stage 2 STEM Earth & Life Science" Up to 5 lessons/projects
  - D. "Stage 3 STEM Prosthetic Leg" 1 PBL Unit



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**2. Core Knowledge Units:** A. Energy Transfer and Transformation

B. Structures and Functions of Living Things

**3. Hand2Mind Projects:** A. Turtle Shell

# **Grade 5 Curriculum Resources:**

**1. Vivify STEM:** A. "Stage 1 STEM" - Up to 4 lessons/projects

B. "STEM Career Exploration" - Up to 4

lessons/projects

C. "Technology: Stop Motion Animation & Toy

Factory STEM"

D. "Stages 1 & 2 STEM Mission to the Moon" -

PBL Unit

E. "Stage 3 STEM Moon Habitat" - PBL Unit

**2. Core Knowledge Units:** A. Modeling Earth's Systems

B. Astronomy: Space Systems

**3. Hand2Mind Projects:** A. Seismograph

#### **Middle School Curriculum Resources:**

\*Grades 6 & 7 follows the entire <u>Core Knowledge Scope & Sequence</u> for that particular grade level.