Suggested Science Topics for Further Exploration

(For library books, documentaries, and YouTube videos)

1. Nature and Life Sciences

- Life cycles of plants, insects, amphibians, birds, and mammals
- Pollination, seed dispersal, and plant identification (good for nature journaling)
- Food chains and ecosystems (forest, pond, desert, ocean, etc.)
- Animal classification and habitats
- Endangered species and conservation

Book examples:

- *Owls in the Family* by Farley Mowat
- *The Burgess Animal Book for Children* by Thornton Burgess
- *Nature Anatomy* by Julia Rothman
- *Tree Book for Kids and Their Grown-Ups* by Gina Ingoglia

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2. Earth and Space

- Weather patterns, storms, and cloud types
- The water cycle and watersheds
- Volcanoes, earthquakes, and plate tectonics
- Moon phases, planets, and constellations
- Seasonal changes and solstices

Video resources:

- NASA's YouTube Channel
- “Bill Nye the Science Guy” episodes
- *Magic School Bus* episodes (weather, planets, volcanoes)

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3. Physical Science and Simple Machines

- Forces and motion (push, pull, gravity, friction)
- Magnets and electricity
- Light and sound waves

- States of matter and chemical reactions
- Simple machines (levers, pulleys, inclined planes)

Hands-on ideas:

- Build a Rube Goldberg machine
- Create a lemon battery or magnetic maze
- Watch “Mark Rober” videos on YouTube (great for upper grades)

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4. Human Body and Health

- Human anatomy (bones, muscles, organs)
- The senses and how they work
- Nutrition and digestion
- Personal hygiene and wellness habits
- CPR basics, first aid, and safety rules

Books and videos:

- *The Way We Work* by David Macaulay
- *What Happens to a Hamburger?* by Paul Showers
- Mayo Clinic Kids’ YouTube Channel
- *Germs Make Me Sick* by Melvin Berger

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5. Invention, Engineering, and Technology

- Famous inventors and inventions (Edison, Bell, Carver, etc.)
- Building bridges, towers, or boats (STEM challenges)
- Renewable energy (wind, solar, hydro)
- Robotics and coding basics
- Transportation history and innovation

Ideas:

- Watch *How It’s Made* videos
- Read *George Washington Carver* (by Tonya Bolden or John Perry)
- Build projects from *Tinker Crate* or free STEM guides

6. Environmental Science and Stewardship

- Recycling and composting
- Renewable vs. nonrenewable resources
- Local ecosystems and biodiversity
- Climate change and natural disasters
- Pollution and clean water access

Documentary ideas:

- *Planet Earth* and *Our Planet*
- *The Lorax* (movie for younger students)
- Short videos from National Geographic Kids

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7. Biblical and Creation Science (Optional)

- Genesis-based understanding of origins
- Flood geology and fossil formation
- Comparing creationist and evolutionist timelines
- Dinosaurs in the Bible
- How worldview influences scientific interpretation

Resources:

- *The Answers Book for Kids* (by Ken Ham)
- *Dinosaurs for Kids* by Ken Ham
- Creation Museum or ICR.org videos