

# Introduction to Research.

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# Agenda

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- 01.** What is Research?
- 02.** Why Get Involved in Research?
- 03.** Research Helps You Learn and Grow.
- 04.** Benefits Students Can Reap from Research.
- 05.** Research Is a High-Impact Educational Experience.
- 06.** Real-World Impact of Research.
- 07.** How to Get Started.
- 08.** Summary.
- 09.** Questions & Discussion.

# What is Research?

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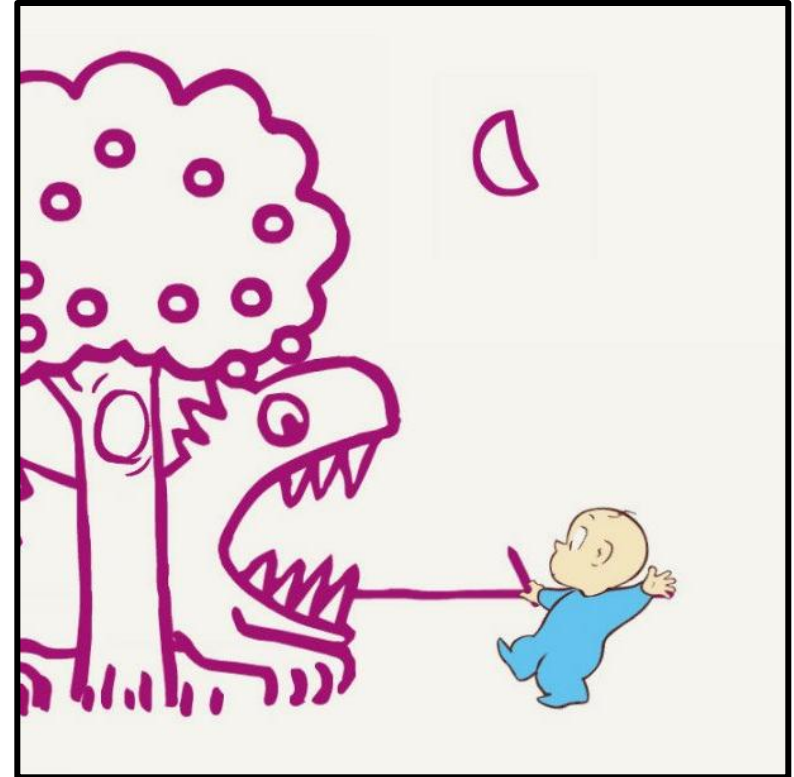
- A methodical way to find answers to questions
- Involves asking questions, gathering information, and testing ideas
- Helps us discover new knowledge and solve problems



# Why Get Involved?

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- **Explore** your curiosity and interests deeply.
- **Experience** real-world scientific thinking and problem-solving.
- **Develop** skills beyond the classroom—critical thinking, data analysis, communication.



# Learning & Growth.

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- **Learn** how to design experiments and analyze data.
- **Understand** complex concepts by doing, not just reading.
- **Work** closely with experts and mentors in your field.



# Benefits.

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- **Build Critical Thinking:** Learn to ask good questions and evaluate evidence.
- **Improve Communication:** Present your ideas clearly in writing and talks.
- **Gain Experience:** Stand out in college and job applications with hands-on skills.
- **Boost Confidence:** Take ownership of projects and solve real problems.
- **Open Career Opportunities:** Discover careers in science, technology, medicine, and more.
- **Collaborate:** Work in teams and network with researchers and peers.



# High-Impact Experiences.

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- **Increases** problem-solving and analytical skills.
- **Encourages** independent and creative thinking.
- **Prepares** you for advanced studies and competitive programs.
- **Helps** build resilience through dealing with challenges and failures.





# Tangible Impacts.

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- Research **improves** health, technology, environment, and society.
- Your work can **contribute** to important discoveries.
- Being part of the research community means helping solve **today's** big challenges and **future** challenges too!

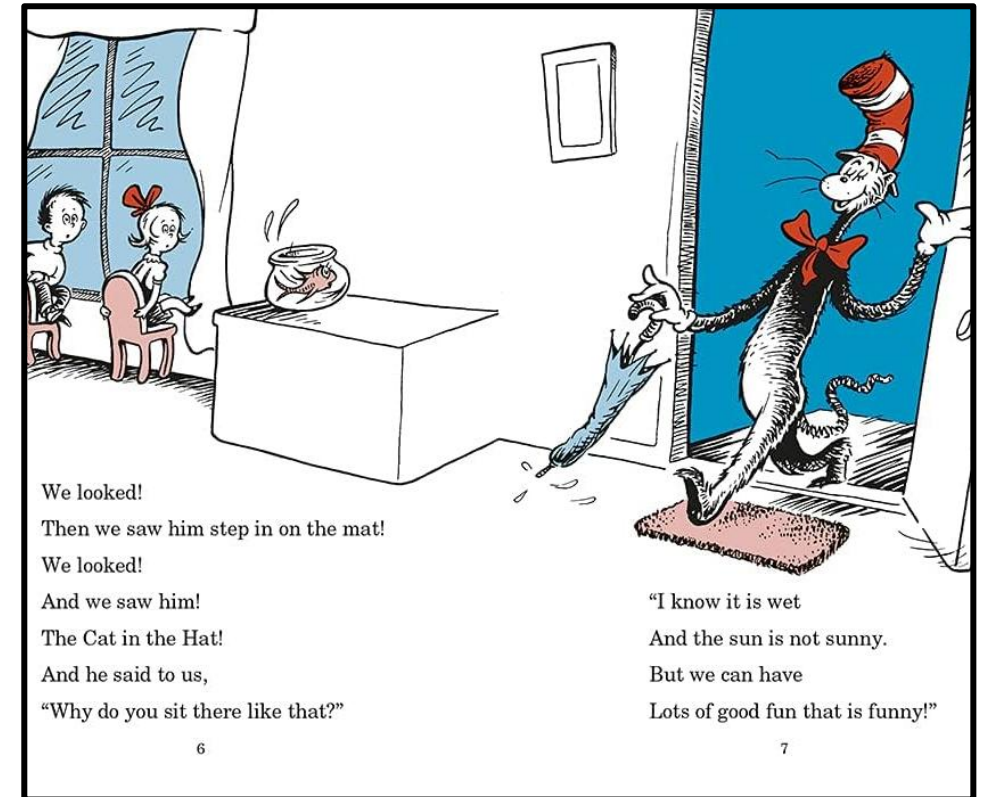




# How to Get Started?

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- **Find** research opportunities in school, universities, or online.
- **Talk** to teachers or professors about your interests.
- **Join** clubs, competitions, or summer research programs.
- Start small projects or experiment **at home**. You can't stigmatize research to just something conducted in a lab, or a novel idea.



# Summary.

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- **Research** is about questioning, investigating, and discovering.
- Get **involved** to develop skills, confidence, and career options.
- Your contributions **matter** and can make a difference.



# Q&A.

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- What **questions** do you have?
- What research topics **interest** *you*? Don't be afraid to tread with interdisciplinarity!
- How can you take the **next step** in doing research?

