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# Science Research

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# What is Science Research?

- **Organized way to answer our natural curiosity and solve problems using the scientific method**

*Why promote science research in the schools?*

- **To understand what science really is**  
“organized curiosity”  
“organized discovery”
- **To show the relationship between science and everyday life**
- **To develop higher order reasoning skills**

- **To provide interdisciplinary opportunities**

**Art**

**English**

**Math**

**Speaking**

**Mechanical/Motor**

**Science**

- **To give children a way to “accomplish” and “succeed”**
- **To give them a chance to have meaningful “fun”**

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# The Scientific Method

- **You have a question**
- **You read and think about the question. You may come up with an educated guess – a hypothesis.**
- **You design an experiment to answer the question. This will involve using the information that you have learned.**
- **You collect materials**
- **You carry out the experiment(s)**
- **You record the data in an organized way – being as quantitative as possible**

- **You draw conclusions from your experiments to answer the original question. Your research will probably lead to new questions!**
- **You write a report that includes the above parts in major categories (subtitles) such as:**
  - Introduction**
  - Purpose (the question with hypothesis)**
  - Procedure (with materials)**
  - Results (use graphs and tables)**
  - Conclusions**
  - References**
- **You reduce the written report into a visual display using the same subtitles as above.**
  - Keep the display simple**
  - Don't go into lengthy descriptions**
  - Use color, photographs, drawings**