

Grade: 5

Subject: Science

# Unit Controlled Studies

<b>Essential Question #1</b>	What is a problem statement?
<b>Essential Question #2</b>	What is a hypothesis?
<b>Essential Question #3</b>	What are the three types of variables?
<b>Essential Question #4</b>	How do you draw conclusions using a controlled study?
<b>Essential Question #5</b>	

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**Essential Question #1**

**What is a problem statement?**

		CT LEVEL
Objective/Skill #1	Define a problem statement	K, C
Objective/Skill #2	Identify a problem statement	K, C
Objective/Skill #3	Formulate a problem statement	S
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- Reference sheet A
- Record sheet A
- Vocabulary sheet

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**Unit: Rocks and Minerals**

**Essential Question # 2**

**What is a hypothesis?**

		CT LEVEL
Objective/Skill #1	Define a hypothesis	K, C
Objective/Skill #2	Identify a hypothesis	K,C
Objective/Skill #3	Formulate a hypothesis	S
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- Reference sheet A
- Record sheet A
- Vocabulary sheet

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**Unit: Controlled Studies**

**Essential Question #3**  
What are the three types of variables?

		CT LEVEL
Objective/Skill #1	Define manipulated, dependent and controlled variables	K, C
Objective/Skill #2	Identify manipulated, dependent and controlled variables	K, C
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- Record sheet B
- Record sheet C
- Record sheet D
- Vocabulary sheet

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**Essential Question #4**

**How do you draw conclusions using a controlled study?**

		CT LEVEL
Objective/Skill #1	Define conclusion	K, C
Objective/Skill #2	Identify conclusion	K, C
Objective/Skill #3	Formulate a conclusion	S
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- Record sheet B
- Record sheet C
- Record sheet D
- Vocabulary sheet

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**Unit**  
**Powders and Crystals**

<b>Essential Question #1</b>	How does a scientist identify an unknown substance?
<b>Essential Question #2</b>	
<b>Essential Question #3</b>	
<b>Essential Question #4</b>	
<b>Essential Question #5</b>	

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**Unit:** Powders and Crystals

**Essential Question #1**

How does a scientist identify an unknown substance?

		CT LEVEL
Objective/Skill #1	Identify six individual unknown substances	K, C, AN
Objective/Skill #2	Determine what two substances were combined to make three unknown mixtures	AP, AN, E, S
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- ESTEC Kit

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**Unit**  
**Earth Science- Rocks and Minerals**

<b>Essential Question #1</b>	What are identifying characteristics of rocks?
<b>Essential Question #2</b>	What are identifying characteristics of minerals?
<b>Essential Question #3</b>	
<b>Essential Question #4</b>	
<b>Essential Question #5</b>	



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**Unit: Rocks and Minerals**

**Essential Question #1**

What are identifying characteristics of rocks?

		CT LEVEL
Objective/Skill #1	Observe rocks	C, AN
Objective/Skill #2	Identify rocks	K, C, AN
Objective/Skill #3	Classify rocks	AN
Objective/Skill #4	Record data on rocks	K
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- **Destinations in Science- Death Valley**
- **ESTEC Kit**

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**Unit: Rocks and Minerals**

**Essential Question # 2**

**What are identifying characteristics of minerals?**

		CT LEVEL
Objective/Skill #1	Observe minerals	C, AN
Objective/Skill #2	Identify minerals	K, C, AN
Objective/Skill #3	Classify minerals	AN
Objective/Skill #4	Record data on minerals	K
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- **Destinations in Science- Death Valley**
- **ESTEC Kit**

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# Unit Electromagnetism

Essential Question #1	What is electromagnetism?
Essential Question #2	What are the real-world applications of electromagnetism?
Essential Question #3	
Essential Question #4	
Essential Question #5	

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**Unit: Electromagnetism**

**Essential Question #1**

**What is electromagnetism?**

		CT LEVEL
Objective/Skill #1	Create electromagnet	S
Objective/Skill #2	Incorporate the electromagnet in the construction of a buzzer	S
Objective/Skill #3	Construct a simple working motor	S
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- ESTEC Kit
- Destination in Science- TV Studio/ Electricity

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**Unit: Electromagnetism**

**Essential Question #2**

What are the real-world applications of electromagnetism?

		CT LEVEL
Objective/Skill #1	Create electromagnet	S
Objective/Skill #2	Incorporate the electromagnet in the construction of a buzzer	S
Objective/Skill #3	Construct a simple working motor	S
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- ESTEC Kit
- Destination in Science- TV Studio/ Electricity

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**Unit**  
**Meet the Creatures**

<b>Essential Question #1</b>	What does a mealworm look like?
<b>Essential Question #2</b>	What are the stages in the life cycle of a mealworm?
<b>Essential Question #3</b>	How do mealworms react to various environmental stimuli?
<b>Essential Question #4</b>	
<b>Essential Question #5</b>	

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**Unit:** Meet the Creatures

**Essential Question #1**

**What does a mealworm look like?**

		CT LEVEL
Objective/Skill #1	Observe mealworms	C, AN
Objective/Skill #2	Identify parts of the mealworm	K, C, AN
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- ESTEC Kit

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**Unit: Meet the Creatures**

**Essential Question #2**

**What are the stages in the life cycle of a mealworm?**

		CT LEVEL
Objective/Skill #1	Identify the stages of development of a mealworm	K, C, AN
Objective/Skill #2	Diagram and label the stages of development	AN
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- ESTEC Kit



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**Unit: Meet the Creatures**

**Essential Question #3**

**How do mealworms react to various environmental stimuli?**

		CT LEVEL
Objective/Skill #1	Experiment with stimuli and observe reactions of the mealworms	AN
Objective/Skill #2	Design and conduct a controlled study	S
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

**Activities that you may opt to use with objectives/skills being taught above**

- ESTEC kit