

NAME

# WHAT IS SCIENCE?

# MUSEUM EXPLORATION GUIDE

# » INSTRUCTIONS

Cut pages, assemble in numerical order and staple to form a booklet. Then use your observations to complete the *What Is Science*? worksheet after your field trip.

# QUESTIONS

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Science involves asking **questions** and developing experiments to answer them.

WRITE A QUESTION ABOUT SOMETHING INTERESTING IN THE MUSEUM.

## **OBSERVATIONS**

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When scientists make observations they collect data and record evidence.

DRAW SOMETHING YOU OBSERVE.	
	What do you see, touch or notice?

# HYPOTHESIS

A hypothesis is an explanation to a question that can be tested with an experiment.

Hypotheses are based on observations and things you already know.

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### **EXPERIMENTS**

Experiments involve **testing** and **retesting** ideas to answer questions and make discoveries.

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WHAT DID YOU DISCOVER?			-/-	

# **INFERENCE**

An inference is a **conclusion** or interpretation based on what you observe.

Example:

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**Observation**: I can see gray clouds in the sky.

Inference: I see gray clouds, so I think it might rain.

MAKE AN INFERENCE BASED ON SOMETHING YOU OBSERVE.

### CREATIVITY

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It takes creativity and imagination to create new ideas and to answer questions.

# **OBSERVATIONS**



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# **WHAT IS SCIENCE?**

NAME

. . . . . . . . . . . .

Use the information you gathered at the Museum to complete this worksheet.

HERE IS A PICTURE OF SOMETHING I OBSERVED  SCIENCE INVOLVES MANY THINGS, INCLUDING	AT THE MUSEUM I DISCOVERED
TO ME, SCIENCE IS	

# QUICK TEACHER INSTRUCTIONS

#### **BEFORE THE FIELD TRIP**

- 1. Print an exploration guide for each student.
- 2. Have students assemble the guides before going on the field trip.
- 3. Tell students they will record their observations, experiences and thoughts while they explore the Museum.
- 4. Briefly review each page with students.

#### DURING THE FIELD TRIP

- 1. Make sure each chaperone understands what students will do. Emphasize the importance of having students complete the exploration guide.
- 2. Give each student their guide and a pencil. Make sure they complete it while exploring the Museum.

#### AFTER THE FIELD TRIP

- 1. Give each student their completed exploration guide and a worksheet if there is one. They will use their observations to complete the writing exercise.
- 2. Discuss all definitions and review everything they learned.

#### » REFER TO FULL LESSON PLAN FOR MORE DETAILS

