

## WHAT IS A SCIENTIST?

Many young students are exposed to the idea of science through the discoveries of Einstein and Ben Franklin; Present Your PhD (PyPhD) aims to end these stereotypes by providing hands-on ways to explore the world of scientists and science researchers. We describe the variety of people and the topics they study, and introduce the concept of *research*, while inviting students to picture themselves as a scientist, both now and in the future.

SCIENCE OUTREACH

Presenter name: \_\_\_\_\_

PRESENT YOUR PHD

Presenter expertise: \_\_\_\_\_

GRADE 1

\_\_\_\_\_

MIDWAY ISD

\_\_\_\_\_

### KEY LEARNING(S)

Scientists are real people

Anyone can be a scientist

The concept of *research*

There are many different kinds of science and research

You can do research, too!

### UNIT ESSENTIAL QUESTIONS

What does a scientist look like?

What does a scientist do?

What is a graduate student? Are they scientists?

What is research?

Am I a scientist? What can I do to participate in science?

### INSTRUCTIONAL TOOLS (WE PROVIDE)

PowerPoint

Drawing sheets

Blacklight and tube of GFP (green fluorescent protein)

Lab coats, goggles, gloves

Balloons

### WHAT IS A SCIENTIST

Introduce the idea of science as a profession

### ANYONE CAN BE A SCIENTIST

Scientists come from all different backgrounds, are different ages, and do different things

### SCIENTISTS DO RESEARCH

Scientists ask questions about the world, then they make a guess about the answer to that question. This is called doing research.

### RESEARCH IS VARIABLE AND FOR EVERYONE

There are lots of different kinds of research and different levels of difficulty. Anyone- even children- can do research!

### LESSON ESSENTIAL QUESTIONS #1

What does a scientist look like?

### LESSON ESSENTIAL QUESTIONS #2

Do you know any scientists?  
Who gets to be a scientist?

### LESSON ESSENTIAL QUESTIONS #3

What does a scientist do?  
How does a scientist do their job?

### LESSON ESSENTIAL QUESTIONS #4

What kinds of research is there?  
What kinds of research can you do?

### VOCABULARY #1

Scientist

### VOCABULARY #2

N/A

### VOCABULARY #3

**Research**

### VOCABULARY #4

N/A

(-)30-0min	PyPhD presenters arrive, meet with teachers, and set up
<b>0:00</b>	Presenters focus the students and begin Power Point
0-3	Introductions
3-8	Slides 2-5
8-15	Drawing activity
15-20	Slides 7-11
20-23	Slide 12 student responses
23-28	Slides 13-15, balloon activity
28-30	Slides 17-18
30-40	Drawing activity
40-45	Slides 19-20, closing remarks
45-1hour	Observe GFP, look at PPE (flexible)