Xplorlabs Learning Experience -



PHYSICAL SCIENCE

2 CLASS PERIODS

XPLORLABS RESOURCE: THE SCIENCE OF FIRE SAFETY

LEARNING objectives

PS7: Obtain, evaluate, and communicate information to explain transformations and flow of energy within a system.

MATERIALS needed

Student Internet Access Science of Fire Safety Graphic Organizer Sample Sprinklers

- HOOK/ intro

Story Time: Tell the students the story of how my house burned down when I was in high school.

LESSON structure

<u>Engage</u>

Reflect & Discuss: Consider the spaces where you spend most of your time. What characteristics make a space safe in the event of a fire.

Real Lab Footage Video - What observations or data can you collect to understand the impact of fire sprinklers?

Students Explore - Using Xplorlabs, students research types of fire sprinklers. Allow students to observe sample sprinklers. <u>Explore/Explain</u> Virtual Simulation - Students watch Xplorlabs video to understand the interaction between thermal energy and a liquid. Students will explore the virtual simulation on how sprinklers work in different

real-life scenarios. Students will discuss what they learned about sprinklers.

Students will watch a video that explains how fire sprinklers are activated.

HOW DO FIRE SPRINKLERS WORK?



