

PLASMA GLOBE

SCIENCE SAFETY

PLEASE follow these safety precautions when doing any science experiment.

- **ALWAYS** have an adult present.
- **ALWAYS** wear the correct safety gear while doing any experiment.
- **NEVER** eat or drink anything when performing any experiment.
- **REMEMBER** experiments may require marbles, small balls, balloons, and other small parts. Those objects could become a **CHOCKING HAZARD**. Adults are to perform those experiments using these objects. Any child can choke or suffocate on uninflated or broken balloons. Keep uninflated or broken balloons away from children.

INGREDIENTS

- Plasma Globe
- Fluorescent Bulb

INSTRUCTIONS

STEP 1: Discover a suitable location away from direct sunlight, and preferably where you are able to dim the lights. Keep the plasma globe away from any metal objects or surfaces. Metal objects or surfaces may cause a shock hazard.

Eye Safety



This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.

Electrical Safety



This symbol appears when care should be taken when using electrical equipment.

STEP 2: Plug in the plasma globe and turn it on to full power.

Eye Safety



This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.

Electrical Safety



This symbol appears when care should be taken when using electrical equipment.

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STEP 3: Holding the fluorescent bulb by the glass, bring it close to the plasma globe and observe.

Eye Safety



This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.

Electrical Safety



This symbol appears when care should be taken when using electrical equipment.

EXPLANATION

When the plasma globe is turned on, the gas inside the globe is charged with a high-voltage current. This causes the gas to ionize and turn into plasma. The entire plasma globe becomes a conductor, allowing the electricity from the electrode to travel through the plasma and escape through the air.

When the fluorescent bulb is placed close to the plasma globe, the electromagnetic field around the globe induces a current inside the bulb, causing the tube to illuminate.