

LEVITATING SLINKY

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

- Slinky

INSTRUCTIONS

STEP 1: Hold the slinky allowing it to levitate in the air.

Eye Safety



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

STEP 2: Drop the slinky and observe closely.

Eye Safety



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

EXPLANATION

If you look close enough you will observe that the bottom coils stay suspended in the air. As you hold the slinky in the air, gravity pulls down. That downward pull is balanced by the upward pull of tension created by the coils above the coils at the bottom. When you let the slinky go, the bottom stays suspended as the top collapses. As the slinky collapses the coils slam into each other creating a wave downward that eventually reaches the bottom coils telling them to fall to the ground.

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