A Paper Spiral Experiment

How can you make a paper spiral spin without touching it?

**Hypotheses:** How they can make a paper spiral turn without touching it?

Write your hypothesis here: A paper spiral could spin without touching it by heating air causing the air molecules to travel far apart then by making the air less dense. Less dense air will always rise above dense air. As the warm, lighter, air rises upwards the paper spiral begins to spin.

**Material:**

* • One sheet of paper
* • Scissors
* • String
* • A needle
* • A lamp with an uncovered light bulb

**Procedure:**

* 1. Trace a spiral. It should fill approximately ¼ of your sheet of paper. Leave about 1 cm between each line.
* 3. Carefully cut your spiral on the line, starting at the outer tip.
* 4. Use the needle to punch a hole in the centre of your spiral.
* 5. Thread the string through the hole and tie a knot.
* 6. Hold the string and position your spiral over the lamp.
* Observations: Please write at least FIVE observations
* - The spiral did not spin on the first try because the lightbulb didn’t have enough heat..
* - I needed to loosen up the hole to make it less tight around the string.
* - I needed more heat energy to make it spin faster.
* - Next we tried holding the spiral over the stove and it spun fast.
* - I realized the more eat there was the faster it spun.