

Design headwear to balance an apple on your head as you compete in a relay race.

- Card stock
- Popsicle sticks
- Pipe cleaners
- Paper
- Masking tape
- String
- Paper clips
- Rubberbands
- Apples
- Scissors

1. Divide students into groups of 3-4 and distribute materials to each team.
2. Outline the competition.
 - Each student must make their own headwear that can balance an apple on top of their head.
 - Students cannot touch the headwear or the apple during their leg of the relay but can transfer the apple to their teammate using their hands when their leg has ended.
3. Have students spend time planning.
4. Build, test and improve.
5. Race! Create an apple relay back and forth across the classroom.

- Host multiple relay events and give students an opportunity to improve their headwear in between each event. Have teams track their total time to complete each relay event to see if they improve.
- Add material constraints for an extra challenge (e.g. only a certain quantity of each material).

[Apple Activity for September Fall STEM Activities - Back to School & Apple Week](#), Kerry Tracy: Feel-Good Teaching

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.