



INVENT THE SUMMER

Week 1: Paper Ball Launcher

1 Complete the Challenge.

Create a device to launch, throw, drop or fling a paper ball as far as possible. Your ball must be made out of a single piece of 8 1/2 x 11" piece of paper. That's the size of regular printer or notebook paper.

For kids
12 and
under!

The Rules

You CAN:

- ✓ Launch your ball in any direction: forwards, backwards or straight into the air.
- ✓ Make your device as simple or as complex as you want.
- ✓ Make your device as large or as small as you want.

You CAN'T:

- ✗ Put weights in the ball to make it fly farther.
- ✗ Use premade or store bought launchers.
- ✗ Just hit the ball with something like a baseball bat or golf club.

Once you can successfully launch your ball, see how far you can launch it. Now how accurately can you launch it?

🤔 Our tips to avoid angry parents 😊

DON'T

- 🤔 Use an important document as your ball.
- 🤔 Launch balls at your parents while they are trying to work.
- 🤔 Leave paper balls all over the place.

DO:

- 😊 Agree on the materials to use before you start building.
- 😊 Stay out of the way when building or testing your launcher.
- 😊 Clean up after yourself.

2 Create a video of your Paper Ball Launcher.

Try to keep your video under 1-minute long and include the following:

- The name of your solution.
- How does it work?
- What kind of materials did you use?
- Did you have any problems figuring out the solution?
- What was the biggest lesson you learned?

Remember, your video will be visible to anyone with an internet connection, so it's important to protect your privacy and stay safe. [Click here](#) to see our video submission and safety tips.

3 Enter the contest by 9:00pm EST on July 5, 2020.

Ask a parent to upload your video to [YouTube](#) or [Vimeo](#). Then use our [online entry form](#) to send us the link. All entries must be completed by a parent or legal guardian.

All contest entries will receive **1** ticket for our big end-of-the-summer prize drawing! You can receive bonus tickets anytime someone enters their first *Invent the Summer* challenge and credits you for telling them about us!

**All videos will be reviewed prior to publishing online to ensure the content is appropriate for all ages.*

4 View other solutions and VOTE!

You can see all the solutions and vote for your favorites from 8:00am EST on Monday, July 6 until 5:00pm EST on Tuesday, July 7. See our [voting rules](#) for more information.

5 Winners announced by 8:00pm on July 7th!

Audience Choice Award: Goes to the solution with the most votes.

Editor's Choice Award: Selected by the Junior Board of Engineers. Solutions will be judged on originality, execution and presentation.

Winners receive their choice of an *Invent the Summer* t-shirt or drawstring bag.