



ACTION CONTRAPTION CHALLENGE

DESIGN GUIDELINES

Below are guidelines to keep in mind when making your Action Contraption submission. We encourage participation first and foremost, so remember that you won't be disqualified if your entry doesn't comply with every guideline, but if you do, your entry will score higher!

GOOD LUCK!

Per the contest rules, submit one video (up to 200 MB), one thumbnail image, title, and text description of your Action Contraption Machine. This is what we hope to see:

Start and end with a domino

Your machine must start and end with a store-bought or homemade domino.

Include at least 2 simple machines

Your machine should include at minimum of two of the six simple machines listed below.

- inclined plane
- pulley
- wheel and axle
- wedge
- lever
- screw

To learn more, check out the Education Resources on the challenge page.

Size Constraints

Your action contraption can be as small as you would like but should fit in a 9 x 9 x 9 foot space.

Materials

Your machine can be made from found items such as dominos, paper towel rolls, straws, marbles, recycled paper, cardboard, and/or much more. The possibilities are endless!

Human Power

There can be no human-powered stages other than the very first domino released.

Power

You CAN use batteries (e.g., AAA, AA, D, Coin Cell, small rechargeable batteries) to power objects within your chain reaction as long as they are not turned on/off, or operated remotely by a person.

You CANNOT use wall outlets or any large power source such as a car battery.

Time Constraints

There are NO time limits. However, your video file cannot exceed 200MB, and we recommend that the video be 30 seconds or less.

No Faces or Voices

Do NOT include the face, voice, or anyone else's face or voice in your video. If in doubt, please remove sound from your video before submission.

Please review the [CONTEST RULES](#) and do not submit any videos or images with personal info, faces or names!

Safety Note: Do not use any materials that are considered hazardous (e.g., including but not limited to fire, knives, etc.). All entry builds should be done with the oversight of a parent or teacher.

