



Online Science Adventure

Fantastic Forces 60 min | Pre-Visit Resources

USING A COMBINATION OF DEMONSTRATIONS AND HANDS-ON ACTIVITIES, STUDENTS WILL EXPLORE AND TEST THE FORCES ACTING ON A VARIETY OF OBJECTS.

At least 1 week prior:

- Ensuring classroom is properly configured and materials will be available for students (see below). Science World staff are available to test set up if needed, please contact schools@scienceworld.ca to schedule this.

Class configuration:

- In-class learners: only one computer (preferably the teacher's computer) will connect to the online learning platform. This computer should be connected to the classroom projector and to an audio system in the room, so students can hear and see the facilitator (if permitted: the camera should also be facing the students, so the facilitator can also see the students).
- Distance learners (students at another location) will need to be connected to the learning platform.

During the session:

- logging in to online learning platform *10 minutes prior* to workshop start time
- providing updated participant count to the facilitator
- providing moderation between students and facilitator (making sure students are on task and communicating with facilitator as needed throughout).
- delivering a demonstration! delivering a demonstration (optional) and supporting students through our facilitated activity:

Tablecloth pull demo

- [Review video](#) (start at 2:00)
- A tablecloth (slippery works best), OR paper towel with no seams along the edges
- Tower building supplies (safe stackable materials like blocks or cups, and a plastic plate or tray for base)
- Table with level, smooth, clear surface

If you have chosen a 60 minute session, we will lead you and your students through a hands-on activity: Paper Helicopters. This will happen about halfway through your session. Before the presentation, your role will be to prepare the materials for your class (see next page).

During the presentation, your role will be to pass out material and to ensure that students follow your classroom safety rules and the instructions of your presenter. Students can work in pairs or small groups. Preview the [activity](#).

Each student will need:

- 2X paper template ([download template](#)). If students do not have access to a printer they can use a plain sheet of paper, we will guide them through how to cut out without a template
- scissors
- a paperclip (plus 2-5 more if available)

Bonus materials:

- other found objects (string, tape, coins)
- different weights of scrap paper