



a WOW Lab

BLUEPRINT

Light-Bending JELL-O

Lesson Logistics

Learning Outcomes

Grades 7-9	Grade 10-12
Optics	Waves

Class Organization

Divide the students into groups of two to four; groups will take turns at each station.

Notes

Set Up:

The JELL-O should be made at least 24 hours before it is cut. Do not use sugarless JELL-O. Allow for time before class to cut the JELL-O shapes. The International WOW-Spy Academy includes four different stations -- each station can be set up in a different area of the classroom. Depending on the number of lasers, each station can have one or two lasers, but if there are fewer lasers than what is listed in the *Shopping List* (four red lasers and two green lasers) then the stations do not have to be set up all at once.

Activity:

Group students in teams of two to four to complete the activity. Allow each group to spend five to ten minutes at each station. Note that Missions 1 and 2 should be completed in chronological order but the order does not matter for the other stations. If students finish early, or if there is extra time at the end of the class, let students play around with the mazes or have students create and solve their own mazes.

Clean Up :

The JELL-O can be thrown in the trash or stored in the fridge to use for another class. The JELL-O can be stored for up to two weeks as long as it does not become moldy or shrivel. Before re-using the JELL-O, make sure to check the sides for fingerprints because fingerprints will prevent the laser beam from reflecting clearly. If the sides are heavily covered in fingerprints, then discard that piece.