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Trajectory Deflection Worksheet

Conduct the following experiments to find out which factors affects the path of the spacecraft during a planetary flyby.

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1.	Use different-sized spacecraft (ball bearings) to fly past the planet (magnet). Does this change the path of the spacecraft?
2.	Change the initial speed of the spacecraft by raising the launch ramp. Does this change the path of the spacecraft?
3.	Try using a different-sized planet (magnet). Does this change the path of the spacecraft?
4.	Try moving the launch ramp away from the planet. Does this change the trajectory of the spacecraft?
W]	hich items from above would your engineering team use to design a launch for a
spa	acceraft trying to get to the outer planets? (Example: Spacecraft size, spacecraft
ini	tial velocity, planet size, distance of launch from the planet.)