Toy Car Ramp: Try Two Heights

Answers and adult support.

Prepare a low, steady ramp

An adult puts a rigid board on one large book on a clear floor, away from stairs and walkways. Mark a starting position for a large toy car. Add a second similar book for the higher setup. Secure both setups against slipping. Stop if a run is blocked or the car leaves the board.

Change one factor

Keep the same car, board, release mark and floor surface. Release without a push. Measure along the floor from the ramp bottom to the front of the stopped car, in centimetres every time. Use the same point and unit for all runs.

Record three real runs at each height

Reset the car to the release mark each time. Repeated runs can vary. If the car does not reach the floor or hits an obstruction, record what happened and repeat rather than inventing a distance. An adult may measure and scribe.

Compare the evidence

No results are prefilled. Discuss whether the two sets differ, overlap or show no clear difference. Do not force a conclusion that the higher ramp must always give a longer run. This compares this particular setup, not all cars.