

Friction with different shoes

Use the spring scale to pull different shoes across your desk, with and without weight in them. Record the friction between the shoe and desk, for each shoe and weight.

shoe	friction with no weight	friction with _____ g weight	friction with _____ g weight

Why does the friction change as the weight changes?

Why do you think there is a difference between shoes?

Why do you think the friction is often greater to start, until the shoe is moving?

Friction on different surfaces

Choose one shoe with one weight. Measure the friction when it is pulled across different surfaces.

Shoe: _____ Weight: _____

Surface	Friction	Friction change from desk (g) (include + or -)
desk		

Which surface **increases** friction the most?

Which surface **decreases** friction the most?