

Predict, Observe, Record



Fold an empty cereal box in half to make a ramp. Choose some small objects that you predict will slip down the 'surface of the box quickly and some that you predict will grip well.



Record your observations. Were your predictions right? Which objects were better at gripping?







## Epistemic Insight



We can't answer this question with science alone - we will need science AND sport!



Science helps us to understand why some things slip and others grip. Friction is a force between two surfaces when they rub against each other.

> A smooth bottle top slides down the slope of a cereal box there's less friction.



have more grip.

Bowling alley shoes

have smooth,



Now we need sport to tell us WHY the shoes are designed to slip.



So they need to be slippery for safety and to help sportspeople to slide to bowl a fast ball!



In bowling, competitors need to slide when releasing the bowling ball.



Most shoes have rough soles to help them to grip.