

“Forces” – Traffic Lights

How do we represent forces on a diagram?

How would you describe the force due to gravity?

What is the difference between weight and mass?

How can we convert between mass in kilograms and weight on the earth in Newtons?

What happens when the forces on an object are balanced?

What happens when the forces on an object are unbalanced?

What difference do force and area make to pressure?

What is the size of the pressure if there is a large force on a small area compared to a small force on a large area?

How can we calculate the pressure if we know the force and the area?

What is friction?

How can we change the size of a force due to friction?

What effect does the shape of an object have on the size are friction (or water friction, or syrup friction)?

Why does a boat float on water?