

## **Expalnation: Friction**

### **Teacher asks a question**

First, I will start by taking tribal knowledge about the friction from the students, then I will start by putting the definition to their ears, except that it is

### **Definition: Friction**

Friction is a force that resists the relative motion or tendency of such motion of two surfaces in contact. It is a ubiquitous phenomenon present in everyday life, influencing the movement of objects around us.

### **The importance of Friction:**

Friction between tires and road surfaces provides traction, enabling vehicles to accelerate, decelerate, and maneuver safely.

Friction is utilized in braking systems to slow down or stop moving objects by converting kinetic energy into heat through frictional forces.

Friction is crucial for gripping objects, whether it's the friction between our hands and objects or the tread on shoes providing traction.

**Then he explains** After the definition, I will begin to work with them, the first activity that is (Friction Testing (5 minutes))**and during this part he does an activity,** Provide students with different surfaces (e.g., sandpaper, cardboard, smooth wood, aluminum foil).

Have them attach a small weight or object to a block and measure the force required to slide the block across each surface using a spring scale.

Students can record their observations and compare the frictional forces on different surfaces.

**At the end of the class,** the teacher distributes some applications of Friction: to the topic of the lesson that is makes the teacher sure they understand the lesson.