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Lakhisarai

Sub. Physical edu. , Class 12th

BASED ON NCERT

Friction and its types

The force acting along two surfaces in contact which oppose the motion of one body over the other is called the force of friction. It is very important in sports. That is, the greater the area of contact between the surfaces, the greater is the force of friction. When both the surfaces are smooth, the force of friction reduces to almost zero.

Three types of friction are

(i) Static Friction The opposing force that comes into play when one body tends to move over the another surface but the actual motion has not yet started

Aerodynamics is the study of properties of moving air and the interaction between the air and solid bodies moving between it.

The basic forces of aerodynamics are stated below:

Lift: lift is the force that pushes the object to move upward. It is the force that is the opposite of weight.

Weight: Weight is the force generated by the gravitational force of the earth. The weight of an object controls how strong the push has to be. A shot of 16 pounds requires more force (push) than a javelin.

Drag: Drag is a force that tries to slow the object down. It makes hard for an object to move. It is harder to walk through the water than through the air. It is because water causes more drag than air.

Thrust: Thrust is a force that is the opposite of drag. Thrust is the push that moves some objects forward.

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