

# Friction

- ◆ Friction is a force opposing the \_\_\_\_\_ of one surface over another.
  
- ◆ The Size of the Force of Friction depends on the following factors:
  1. The roughness of the \_\_\_\_\_ (e.g. stepping on banana peel compared with carpet)
  2. The force pushing the surfaces together (e.g. A heavy truck's tyres compared with a lighter bicycle's tyres on the road)
  3. Whether the surfaces are moving or \_\_\_\_\_
  
- ◆ 3 Types of Friction
  1. Static Friction – acting between 2 stationary bodies (e.g. a person \_\_\_\_\_ on a chair, \_\_\_\_\_)
  2. Sliding Friction – acting between surfaces where one is moving (e.g. sliding furniture across the floor, \_\_\_\_\_)
  3. Rolling Friction – acting between surfaces of objects where one has a rounded shape (e.g. car tyres on the road, \_\_\_\_\_)
  
- ◆ 4 Ways to Reduce Friction
  1. Reducing the force or weight pushing both surfaces together
  2. Using a lubricant such as \_\_\_\_\_ between the surfaces
  3. Using ball bearings or \_\_\_\_\_ between both surfaces
  4. Polishing both surfaces to make them \_\_\_\_\_
  
- ◆ An example where friction is useful is \_\_\_\_\_
  
- ◆ An example where friction is not useful is \_\_\_\_\_

