

## IF1 - System Schema and Free Body Diagrams - A

Directions: For each situation...

- (a) draw a system schema diagram
  - (b) draw a quality FBD for the object in bold
- 1) A **cupcake** is on the table.
- 2) A **marble** is rolling to the left along a flat surface with a speed of 2.3 m/s.  
(Assume friction is negligible)
- 3) A **marble** is rolling down a ramp. The ramp slopes downward to the right.  
(Assume friction is negligible)