

## Unit 3 - Causes of Motion

### Exercise 1c - Representing Forces (Unbalanced)

1. The bowling ball leaving the start box as you sweep it with the broom during Broom Ball. Draw a cartoon to represent this.

Sketch a system schema:

Sketch a force diagram:

Sketch a FAD:

2. The bowling ball slowing down as you sweep it into the finish box during Broom Ball. Draw a cartoon to represent this.

Sketch a system schema:

Sketch a force diagram:

Sketch a FAD:

3. A skydiver who has just left the plane and is accelerating toward the ground without any air resistance.



Sketch a system schema:

Sketch a force diagram:

Sketch a FAD:

4. A baseball player who slows as he slides to the right along the ground.



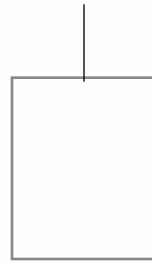
[ClipartOf.com/1060058](http://ClipartOf.com/1060058)

Sketch a system schema:

Sketch a force diagram:

Sketch a FAD:

5. An elevator cart attached to a cable is accelerated upwards.



Sketch a system schema:

Sketch a force diagram:

Sketch a FAD: