

Unit 3 - Causes of Motion

Exercise 1b - Representing Forces (constant motion)

1. A skater is gliding across frictionless ice at a constant speed.



Sketch a system schema:

Sketch a force diagram:

Sketch a FAD:

2. A worker pushes horizontally on a refrigerator as it slides across the floor at a constant speed.



Sketch a system schema:

Sketch a force diagram:

Sketch a FAD:

3. A skydiver floats downward at a constant speed.

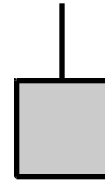


Sketch a system schema:

Sketch a force diagram:

Sketch a FAD:

4. An elevator is traveling downward at a constant speed.



Sketch a system schema:

Sketch a force diagram:

Sketch a FAD: