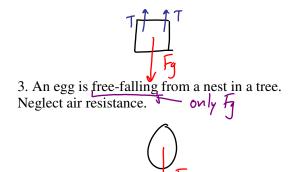
Force	Description
Fg	Force of gravity
Fapp	Applied force -> any push
F4	Force of friction -> generally against motion
FN	Normal force -> supporting force
Т	Tension -> force along a rope
FE	Elastic force -> springs etc.
Fair	Air resistance

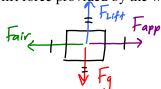
1. A book is at rest on a table top.



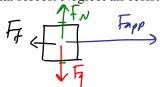
2. A girl is suspended motionless from a bar which hangs from the ceiling by two ropes.



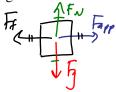
4. A plane flies at a constant velocity (**Note**: there will be an applied force generated by the engines as well as a lift force provided by the wings).

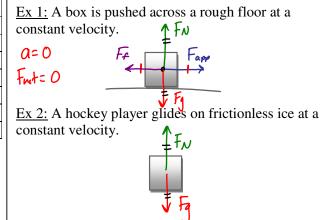


5. A rightward force is applied to a book in order to move it across a desk with a rightward acceleration. Consider frictional forces. Neglect air resistance.



6. A rightward force is applied to a book in order to move it across a desk at constant velocity Consider frictional forces. Neglect air resistance.





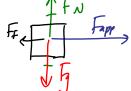
7. A college student rests a backpack upon his shoulder. The pack is suspended motionless by one strap from one shoulder.



8. A skydiver is descending with a constant velocity. Consider air resistance.



9. A force is applied to the right to drag a sled across loosely-packed snow with a rightward acceleration. $\uparrow \downarrow \downarrow \downarrow$



10. A football is moving upwards towards its peak after having been *booted* by the punter.



11. A car is coasting to the right and slowing down. Diagram the forces acting upon the car.

