

## Newton's Law Packet – answers

Part I p 137-140

17)3

18)4

19)4

20)1

21)1

22)3

23)3

24)3

25)2

26)3

27)3

28)1

Part II p 140

29) Coin will fall into the glass

30) Quarter, It has more mass so it has a greater inertia

31) Newton's First Law

32) An object in motion stays in motion until acted on by an unbalanced force (The curb applies the force to stop the skateboard)

33) The seatbelt applies a force to the stunt-driver to prevent him from being ejected from the car when he hits the wall at 80 km/hr.

34) The student was accelerated from 0 to 80 km/hr because the force of gravity was applied to the roller coaster as it plunged downhill.

35) Clockwise

36) Newton's Third Law – For every action there is an equal and opposite reaction

37) The speed of rotation will also decrease