

Quizizz

Unit 3 - Physics - Force Review

Name : _____

Class : _____

Date : _____

- Which fundamental force holds together an atomic nucleus?
 a) Strong Nuclear b) Electromagnetic
 c) Weak Nuclear d) Gravity
- Which fundamental force is responsible for the bonds between molecules?
 a) Strong Nuclear b) Electromagnetic
 c) Weak Nuclear d) Gravity
- Which fundamental force is responsible for the attraction between all things with mass?
 a) Strong Nuclear b) Electromagnetic
 c) Weak Nuclear d) Gravity
- "For every force there is an equal and opposite force." This is...
 a) Newton's 1st Law b) Newton's 2nd Law
 c) Newton's 3rd Law d) Not one of Newton's Laws
- What is the contact force perpendicular to something resting on a surface?
 a) Normal b) Friction
 c) Gravity d) Tension
- What is the force that comes from something hanging or being pulled by a rope (or string, wire, etc)?
 a) Normal b) Gravity
 c) Tension d) Friction
- What is the force that resists motion?
 a) Normal b) Gravity
 c) Tension d) Friction

8. What force holds a magnet to the side of a fridge?
- a) Gravity b) Tension
- c) Electric d) Magnetism
9. What is the correct symbol for the pull the Earth has on a person as they are in the air trying to dunk a basketball?
- a) $F_{p(P,E)}$ b) $F_{g(E,P)}$
- c) $F_{g(P,E)}$ d) $F_{a(E,P)}$
10. What is the correct symbol for the support the Earth gives to a car on the road?
- a) $F_{p(C,E)}$ b) $F_{g(E,C)}$
- c) $F_{n(E,C)}$ d) $F_{a(C,E)}$
11. What is the correct symbol for the ceiling pulling up on the outlets in Mr. O'Neill's room?
- a) $F_{t(C,O)}$ b) $F_{g(O,C)}$
- c) $F_{n(C,O)}$ d) $F_{a(C,O)}$
12. What is the correct symbol for the a student carrying their physics packet in the palm of their hand?
- a) $F_{t(S,P)}$ b) $F_{n(P,S)}$
- c) $F_{n(S,P)}$ d) $F_{a(S,P)}$
13. "An object at rest stays at rest and an object in motion stays in motion, unless acted on by an unbalanced outside force." This is...
- a) Newton's 1st Law b) Newton's 2nd Law
- c) Newton's 3rd Law d) Not one of Newton's Laws
14. A hover-puck is floating on a table but not moving. What forces are acting on the hover-puck?
- a) Force of Gravity - Only b) Force of Gravity and Force of Friction
- c) Force of Gravity and Normal Force d) Force of Gravity and Force Push from the air.

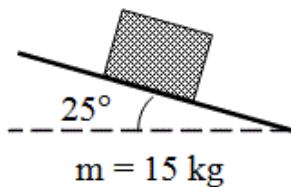
29. If a constant force is applied to a hoverpuck as it goes down the hallway, how would you describe its motion?

- a) It moves at a constant velocity
- b) It slows to a stop.
- c) It speeds up for a short time and then moves at constant speed.
- d) It increases velocity (accelerates)

30. A fisherman is pulling a fish out of a lake. Gravity pulls the fish toward the earth ($F_{g\text{-earth,fish}}$). Since forces always occur in pairs, what is the Newton's 3rd Law partner to this force?

- a) there is no 3rd law partner in this case
- b) air resistance acting on the fish ($F_{F\text{-air,fish}}$)
- c) the gravitational pull of the fish on Earth ($F_{g\text{-fish,earth}}$)
- d) the tension force on the fish ($F_{T\text{-person,fish}}$)

31. Calculate the Force of Friction necessary to keep the box from moving.



- a) 147N
- b) 40N
- c) 56N
- d) 62N

32. Convert 750 grams to kilograms.

- a) 750,000
- b) 7.50
- c) 0.750
- d) 75

Answer Key

1. a
2. b
3. d
4. c
5. a
6. c
7. d
8. d
9. b
10. c
11. a
12. c
13. a
14. d
15. a
16. b
17. a
18. b
19. b
20. c
21. a
22. c
23. b
24. c
25. b
26. a
27. b
28. b
29. d
30. c
31. d
32. c