



PUSH IT, PULL IT

QUIZ



1. Give two examples of scalars?

- a) speed and acceleration b) distance and time c) velocity and mass

2. Give two examples of vectors?

- a) time and force b) velocity and force c) acceleration and mass

3. What kind of forces and magnetism and gravity?

- a) contact forces b) turning forces c) non-contact forces

4. How might an object change if it has unbalanced forces acting on it?

- a) It will change speed, direction or shape
b) It will change speed, shape or colour
c) It will change mass, direction or shape

5. What will happen to your speed if the forces on you are balanced so that the resultant force is zero?

- a) It will stay the same b) it will get faster c) it will slow until you stop

6. What is the equation for weight?

- a) $W = mg$ b) $W = mt$ c) $W = mv$

7. What is the term that describes transferring energy between objects by pushing or pulling?

- a) force b) power c) mechanical work

8. What is the term that describes how difficult it would be to change an object's speed?

- a) acceleration b) momentum c) velocity

9. Name two things that could affect your thinking distance when stopping a car?

- a) speed and tiredness b) alcohol and tyre conditions c) tiredness and road conditions

10. What is the equation linking force, mass and acceleration, sometimes known as Newton's second law of motion.

- a) $m = Fa$ b) $a = mF$ c) $F = ma$

ANSWERS
1) B 2) B 3) C 4) A 5) A
6) C 7) B 8) A 9) A 10) C

