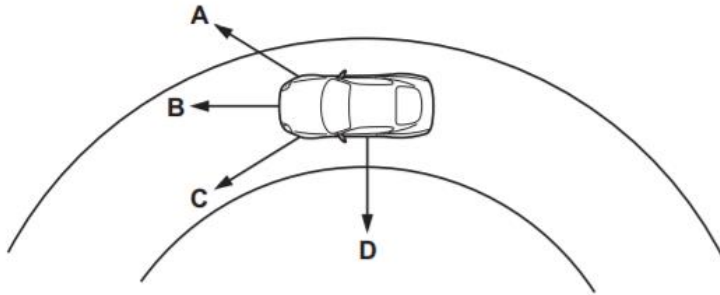


## Class VII Physics

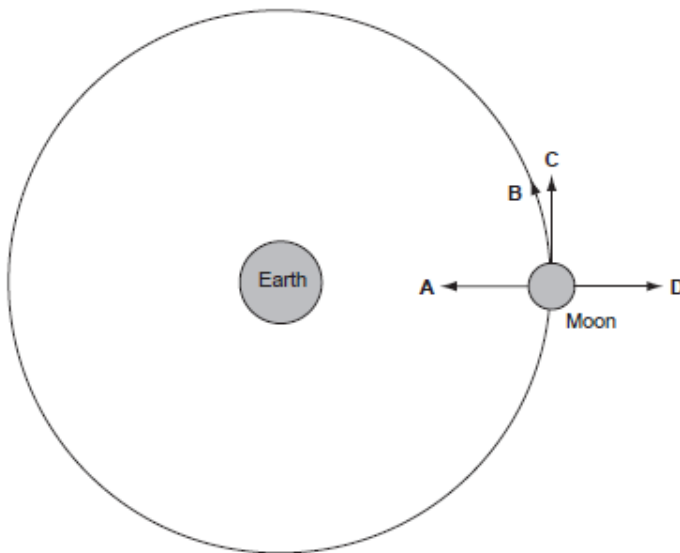
### Week 2

### Forces

1. The S.I. unit of force is
  - A. Quintal
  - B. Newton
  - C. Kilogram
  - D. Metre
2. The diagram shows a car going around a circular track at constant speed. Which arrow shows the direction of the resultant force on the car?



3. The diagram represents the Moon in its orbit around the Earth. Which arrow represents the direction of the resultant force acting on the Moon at the instant shown?



4. If John is pulling a rope to the left with a force of 30 N, while Michael is pulling to the right with a force of 45 N, the rope will move right with a force of 15 N.
- A. True
  - B. False
5. A force that occurs when an object rubs against another object
- A. thermometer
  - B. conduction
  - C. friction
  - D. radiation
6. Gravity and friction are examples of \_\_\_\_\_.
- A. motions
  - B. simple machines
  - C. forces
  - D. distances
7. Something that makes an object start moving, stop moving, speed up, or slowdown is a \_\_\_\_\_.
- A. load
  - B. position
  - C. force
  - D. effort
8. If the net force acting on an object is zero, then the object will remain at rest or move in a straight line with a constant speed. This is Newton's \_\_\_\_\_ law of motion.
- A. first
  - B. second
  - C. third
  - D. fourth

**Learning links:**

Newton's 3<sup>rd</sup> Law: <https://youtu.be/eU3ULRgS8Vk>

Newton's 1<sup>st</sup> Law: <https://youtu.be/2nUuvm5H12Q>

Resultant Forces: <https://youtu.be/yg3bTMcAnsM>

Hooke's Law: <https://youtu.be/joVOE3sLeGI>