

# Amaze Your Brain *at Home!*

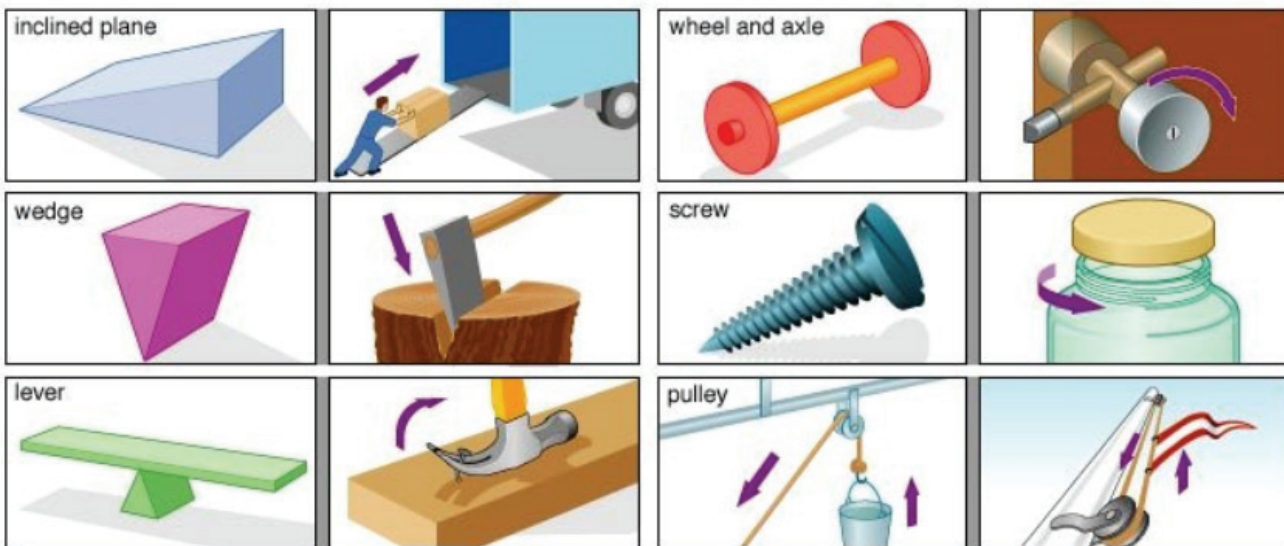
## SCIENCE TRIVIA

ALL  
AGES

### PHYSICS

#### 1) AN ELEVATOR USES WHICH OF THE 6 SIMPLE MACHINES?

- A. Lever, Pulley, Screw, and Wedge
- B. Wheel and Axle, Pulley, and Screw
- C. Inclined Plane, Lever, Pulley, Wheel and Axle
- D. All six!



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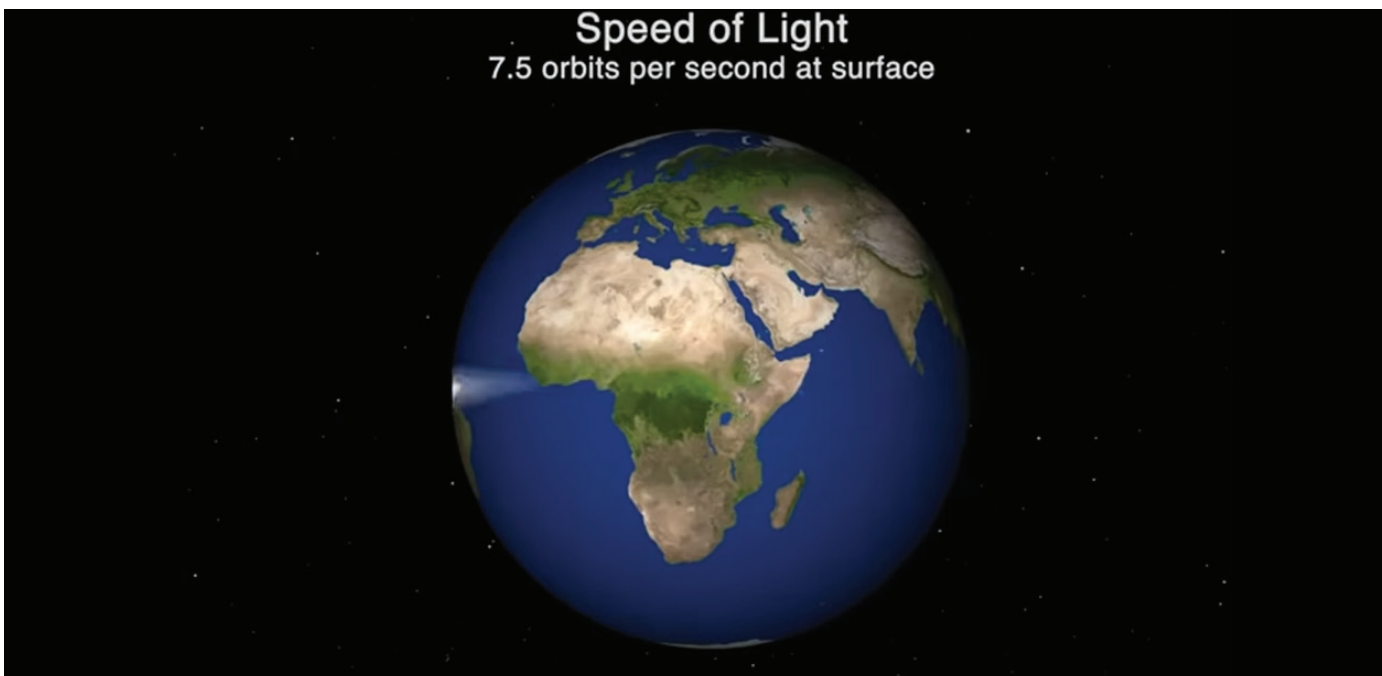
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### PHYSICS

(CONT.)

#### 2) TRUE OR FALSE?

We have neither observed nor created anything that can go faster than the speed of light.  
(Other than light itself.)



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## **PHYSICS**

(CONT.)

### **3) TRUE OR FALSE?**

Water can flow upwards, defying gravity.



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## **PHYSICS**

(CONT.)

### **4) G-FORCE IS THE MEASUREMENT OF**

- A. Force
- B. Gravity
- C. Acceleration
- D. Mass



The 20 G centrifuge at the NASA Ames Research Center

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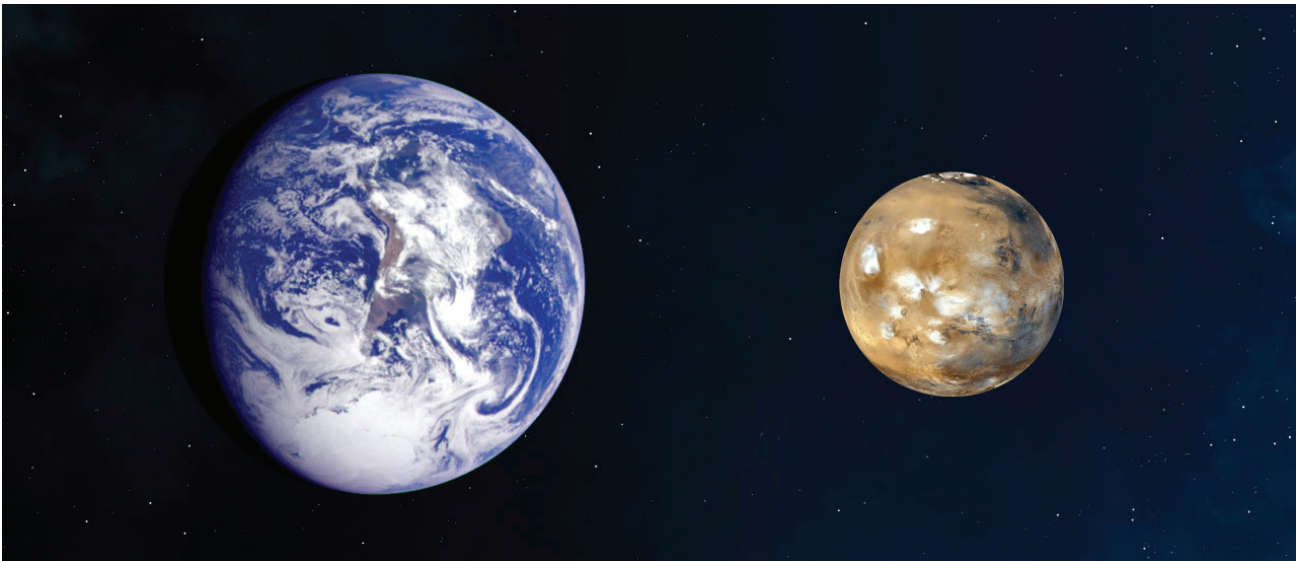
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### PHYSICS

(CONT.)

**5) MARS IS \_\_\_\_\_ EARTH, WHICH MEANS ASTRONAUTS WOULD EXPERIENCE \_\_\_\_ GRAVITY ON ITS SURFACE.**

- A. Bigger than, More
- B. Smaller than, Less
- C. Bigger than, Less
- D. Smaller than, More
- E. Equal to, The Same



**ANSWERS ON NEXT PAGE**



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### PHYSICS

(ANSWERS)

#### 1) D. ALL SIX!

<https://www.elevators.com/simple-machines-used-in-elevators/>

#### 2) TRUE

<https://www.youtube.com/watch?v=LvH2MVI8idw>

#### 3) TRUE

[https://www.usgs.gov/special-topic/water-science-school/science/capillary-action-and-water?qt-science\\_center\\_objects=0#qt-science\\_center\\_objects](https://www.usgs.gov/special-topic/water-science-school/science/capillary-action-and-water?qt-science_center_objects=0#qt-science_center_objects)

#### 4) C. ACCELERATION. WE FEEL 1G ALL TIMES EVERY DAY BECAUSE OF THE EARTH'S GRAVITY.

<https://www.pbs.org/wgbh/nova/article/gravity-forces/>

<https://www.scientificamerican.com/article/star-wars-science-light-speed/>

#### 5) B. MARS IS ABOUT HALF THE SIZE OF EARTH. THIS MEANS IT HAS LESS GRAVITATIONAL PULL, AND ON ITS SURFACE, YOU WOULD WEIGH LESS THAN HERE ON EARTH.

<https://mars.nasa.gov/allaboutmars/extreme/quickfacts/>



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