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General Science By MCQ Part 19





Practice Question

- The lift of an aeroplane is caused by
 - एक हवाई जहाज की लिफ्ट के कारण होता है
- (A) Law of gravitation
(B) Theorem of continuity
(C) Pascal's law
(D) Bernoulli's theorem



Pushendra Singh Chawda 1 day ago (edited)

Aeroplane bernoullis ke principal pr work karta.....When speed increase pressure is decrease top of the wing speed is increase bottom of wing.....

Is tarah se wing ko design kara jata he.....



REPLY



SOURAJIT GHOSH 23 hours ago

Lift of aeroplane by bernoulli's theorem of fluid mechanics



REPLY



Nadeem 1 day ago

Bernoulli's Theorem



REPLY



Ranjeet Singh 19 hours ago

Bernoulli's theorem



REPLY



manali behera 23 hours ago

Bernoulli's theorem



REPLY



Manoj Kumar 1 day ago

Bernoulli's theorem

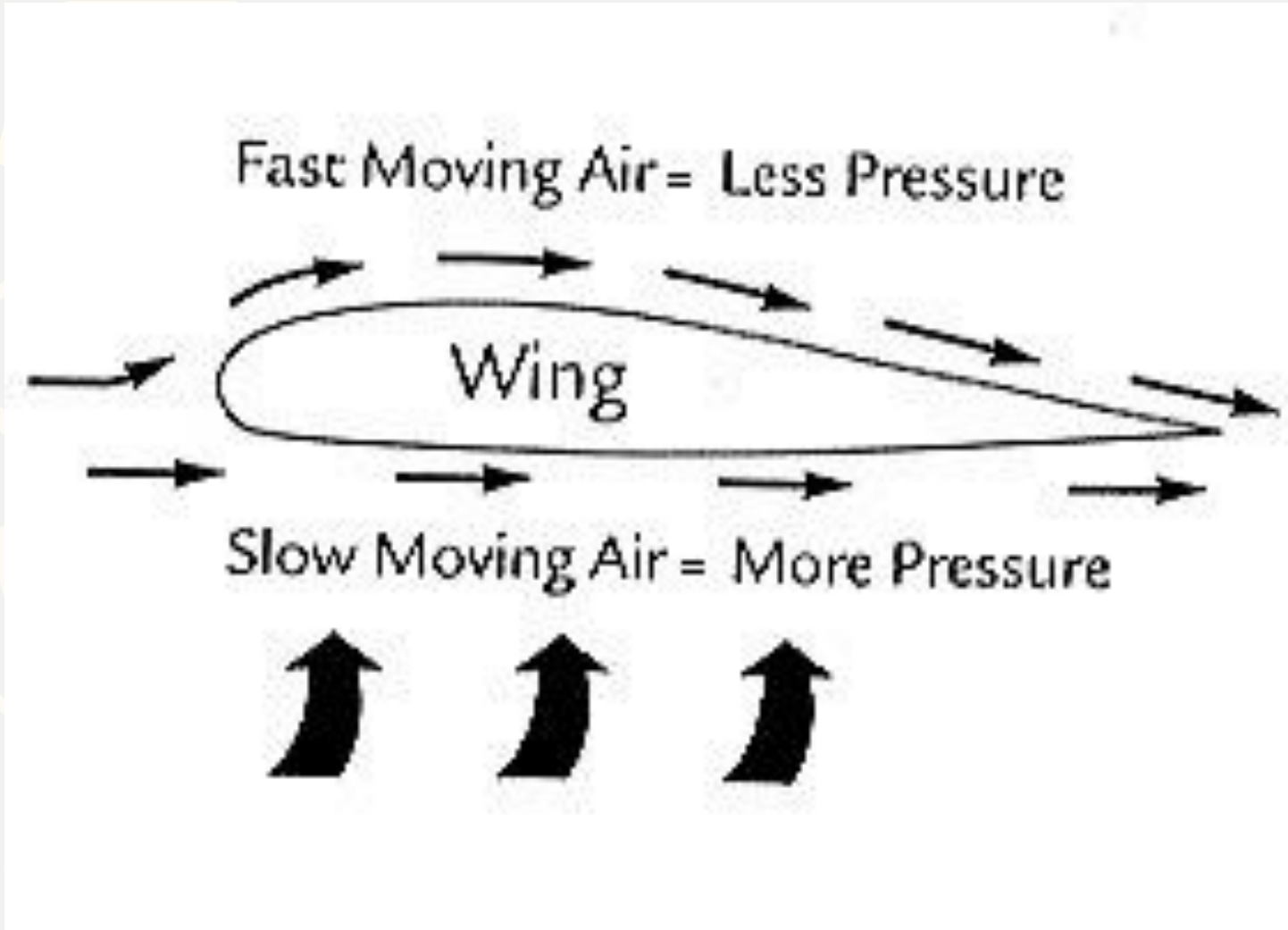


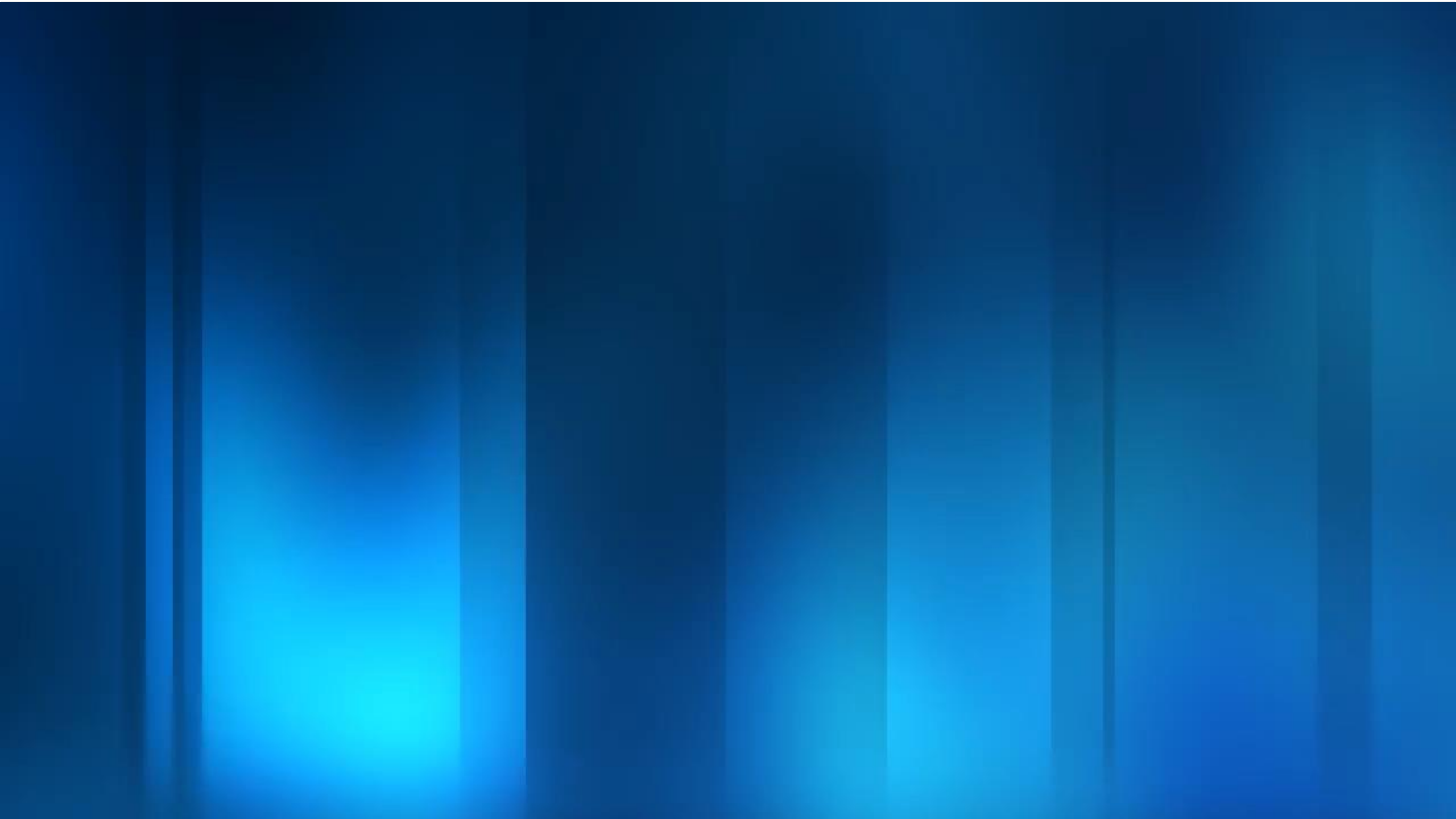
REPLY



Satyam Mishra 1 day ago

Bernoulli, s Theorem





Consider the following statements:

1. A tennis ball and a football can have equal kinetic energy if they have equal velocities/एक टेनिस बॉल और एक फुटबॉल में समान गतिज ऊर्जा हो सकती है यदि उनके पास समान वेग हो

2. A horse and a dog are running with the same speed; both have same kinetic energy/एक घोड़ा और एक कुत्ता एक ही गति से चल रहे हैं; दोनों में एक ही गतिज ऊर्जा है

Which among the above statements is / are correct?

- [A] Only 1 is correct
- [B] Only 2 is correct
- [C] Both 1 & 2 are correct
- [D] Neither 1 nor 2 is correct

- A light and a heavy body can have equal kinetic energy if they have different velocities i.e. light body is moving with high speed and heavy body is moving with low speed. A horse and a dog are running with the same speed. The horse will possess more kinetic energy because the mass of horse is more than the mass of the dog. And Kinetic energy $= \frac{1}{2}mv^2$.
- एक प्रकाश और भारी शरीर में समान गतिज ऊर्जा हो सकती है यदि उनके पास अलग-अलग वेग हैं यानी प्रकाश शरीर उच्च गति के साथ घूम रहा है और भारी शरीर कम गति के साथ घूम रहा है। एक घोड़ा और एक कुत्ता एक ही गति से चल रहे हैं। घोड़े के पास अधिक गतिज ऊर्जा होगी क्योंकि घोड़े का द्रव्यमान कुत्ते के द्रव्यमान से अधिक है। और काइनेटिक ऊर्जा $= \frac{1}{2}mv^2$ ।



- Consider the following:

1. Mica
2. Graphite
3. Sulphur
4. Human body

Which among the above is / are electrical conductors?/उपरोक्त में से कौन विद्युत कंडक्टर है / हैं

- [A] Only 1, 2 & 4
- [B] Only 2, 3 & 4
- [C] Only 2 & 4
- [D] Only 2



- A Pendulum Clock, whose pendulum is made up of a steel rod, will become slow if ___:/ एक पेंडुलम घड़ी, जिसका पेंडुलम एक स्टील की छड़ से बना होता है, अगर ___:

1. Temperature rises
2. Taken to moon
3. Taken from equator to pole

Choose the correct option from the codes given below:

- [A] Only 1
- [B] Only 1 & 2
- [C] Only 2 & 3
- [D] 1, 2 & 3

- **Ans:B**



$$T = 2\pi\sqrt{\frac{L}{g}}$$

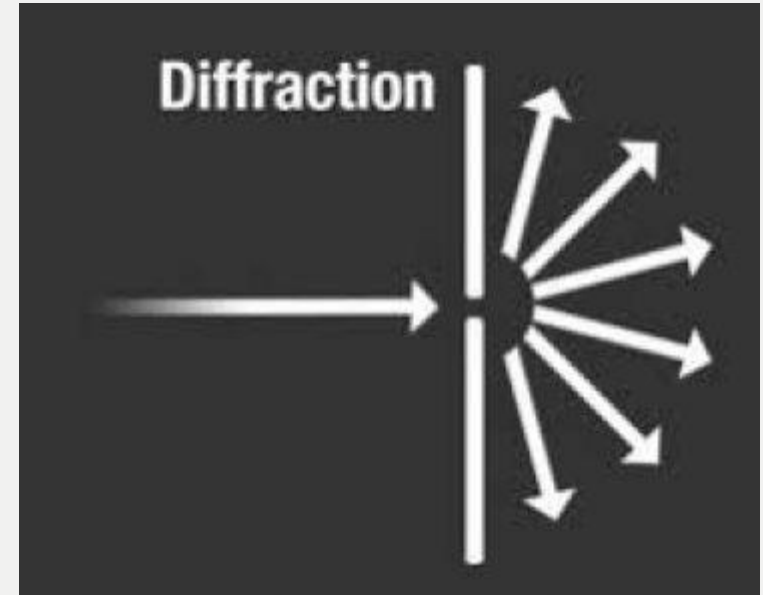


- While passing over an obstacle a light ray slightly bends round the corner. The phenomenon is known as __: /एक बाधा के ऊपर से गजरते समय एक प्रकाश किरण कोने में थोड़ा झुक जाती है। घटना के रूप में जाना जाता है:
- [A] Scattering
[B] Polarisation
[C] Diffraction
[D] Refraction



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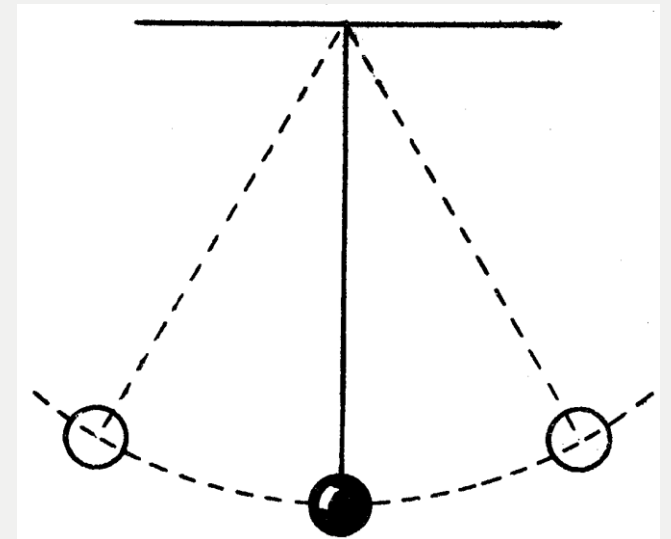
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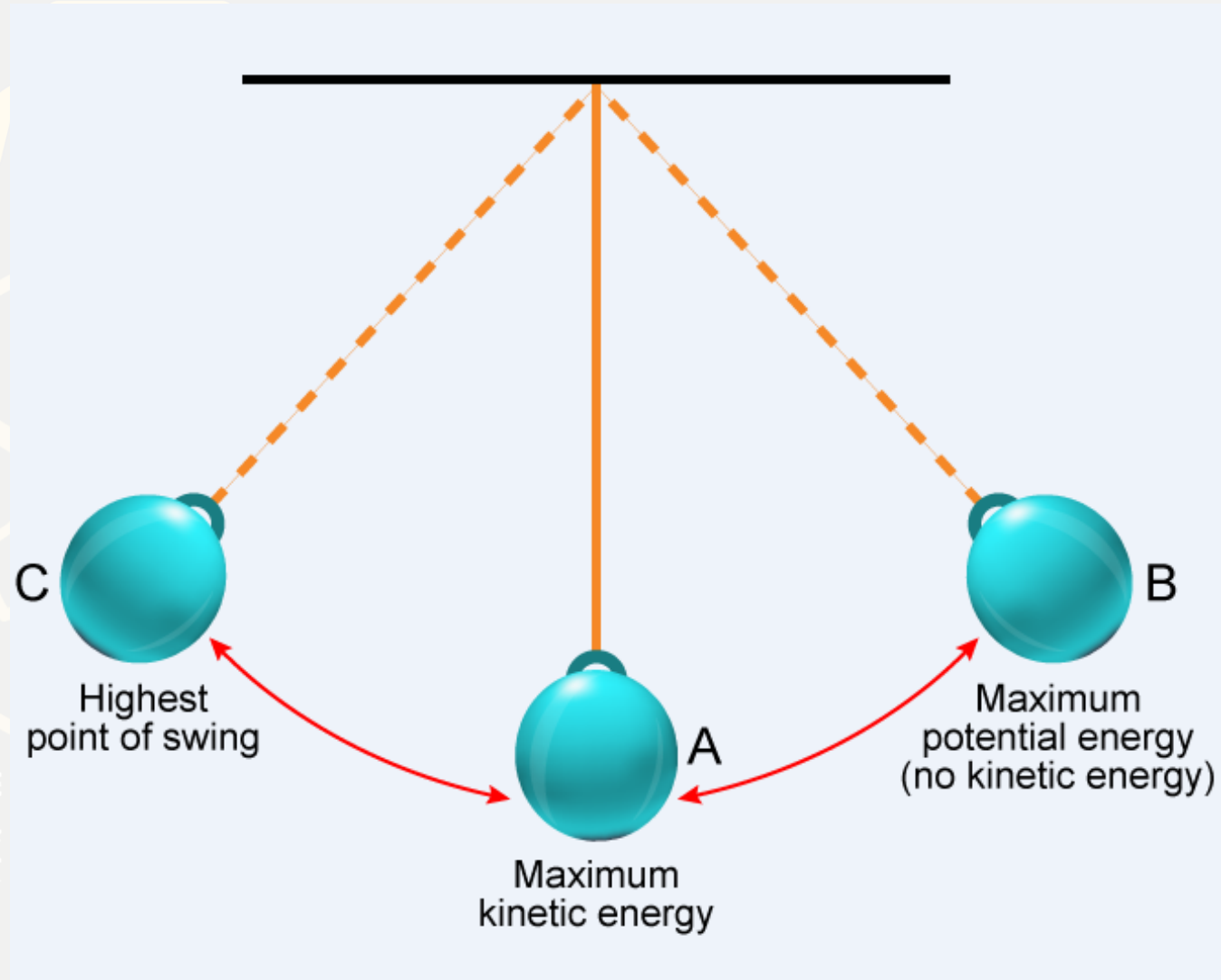




- With reference to a swinging pendulum, which among the following statements is correct when it is at bottom (middle of arc)?/एक झूलते हुए पेंडुलम के संदर्भ में, जो निम्न कथनों में सही है, जब वह नीचे (आर्क के मध्य) होता है?
- [A] It has maximum kinetic energy and minimum potential energy
- [B] It has maximum potential energy and minimum kinetic energy
- [C] It has zero kinetic energy
- [D] It has zero total energy

• **Ans:A**



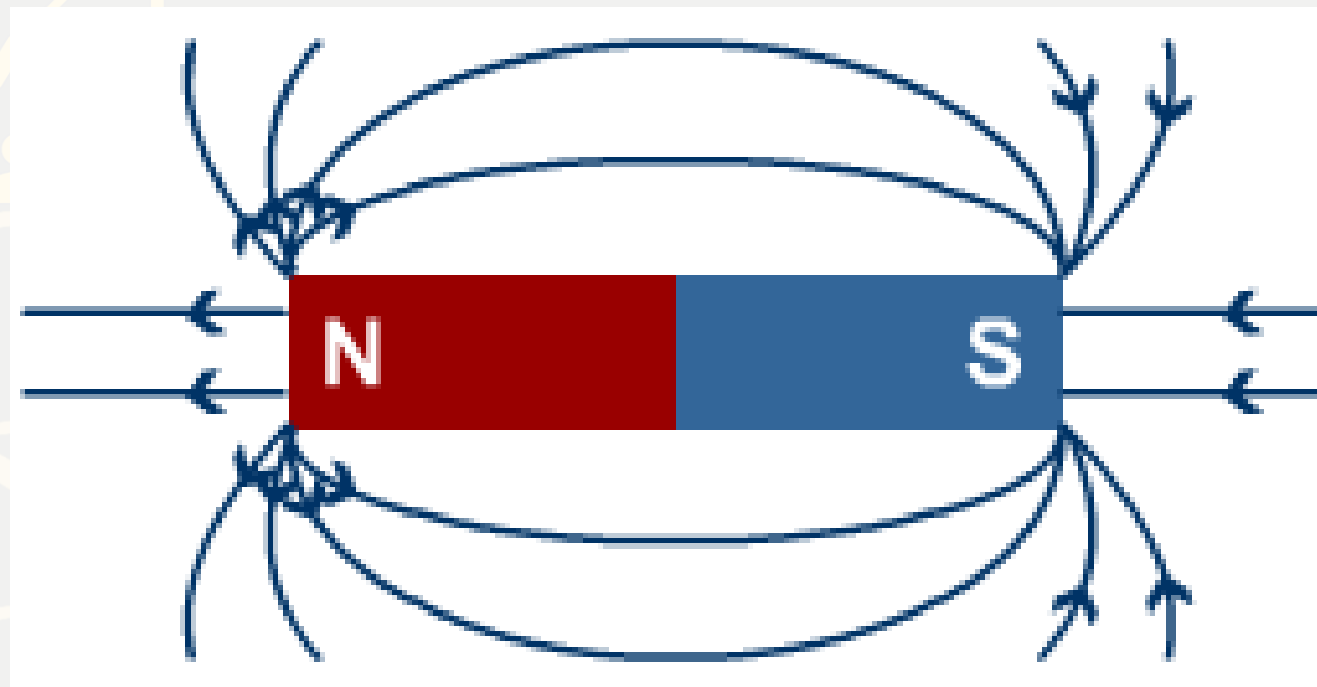




- The magnetic lines of force:
 1. are closed continuous curves/ बंद परिपथ में चलना
 2. travel from north to south outside the magnet and from south to north inside the magnet/ चुंबक के बाहर उत्तर से दक्षिण की ओर और चुंबक के अंदर दक्षिण से उत्तर की ओर यात्रा करते हैं
 3. bend along the length of magnet/ चुंबक की लंबाई के साथ झुकें
 4. mutually repel each other/ परस्पर एक दूसरे को पीछे हटाना
 5. never intersect each other/ एक दूसरे को कभी भी प्रतिच्छेद न करें

Which among the above is / are correct?

- [A] Only 1 & 2
- [B] Only 1, 2 & 3
- [C] Only 1, 2, 3 & 5
- [D] 1, 2, 3, 4 & 5





- The frequency range of Ultra High Frequency (UHF) is ___?
- अल्ट्रा हाई फ्रीक्वेंसी (UHF) की आवृत्ति रेंज ___ है?
- [A] 3 to 10 Megahertz
[B] 3 to 30 Megahertz
[C] 300 to 3000 Megahertz
[D] 300 to 30000 Megahertz
- **Ans:C**



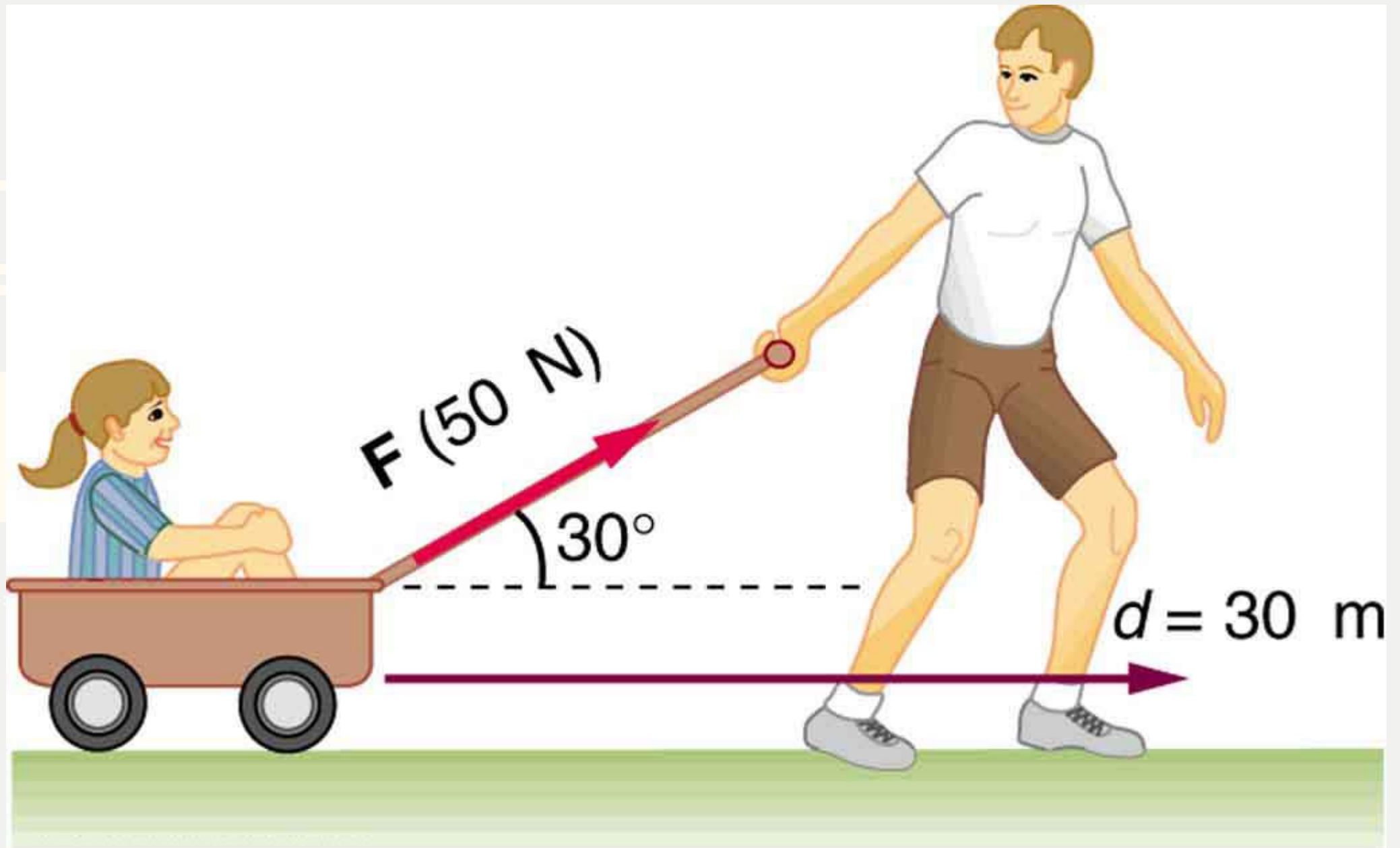
- As per the Newton's second law of motion, what is the relation between the rate of change of linear momentum and the external force applied? / न्यूटन के गति के दूसरे नियम के अनुसार, रैखिक गति के परिवर्तन और लागू बाहरी बल के बीच क्या संबंध है?
- [A] directly proportional
[B] inversely proportional
[C] independent of each other
[D] None of the above

• **Ans:B**



- Work done will NOT be zero in which of the following case/cases?/किया गया कार्य निम्नलिखित में से किस मामले / मामलों में शून्य नहीं होगा?
- [A] When displacement is zero
- [B] When angle between force and displacement vector is zero
- [C] When angle between force and displacement vector is 90°
- [D] When force is zero

• **Ans:B**





• 1 electron volt of energy is equal to ____?

- [A] $3.6 \times 10^6 \text{ J}$
- [B] $1.6 \times 10^{-19} \text{ J}$
- [C] $3.6 \times 10^{-19} \text{ J}$
- [D] $1.6 \times 10^{-18} \text{ J}$

• **Ans:B**



- Which is the effect of increase in the temperature on the surface tension of the liquid?/तरल के सतह तनाव पर तापमान में वृद्धि का प्रभाव कौन सा है?
- [A] it decreases
- [B] it increases
- [C] it remains the same
- [D] None of the above

• **Ans:A**



Formula

$$\gamma = \frac{F}{L}$$

γ \longrightarrow Surface Tension

F \longrightarrow force

L \longrightarrow length

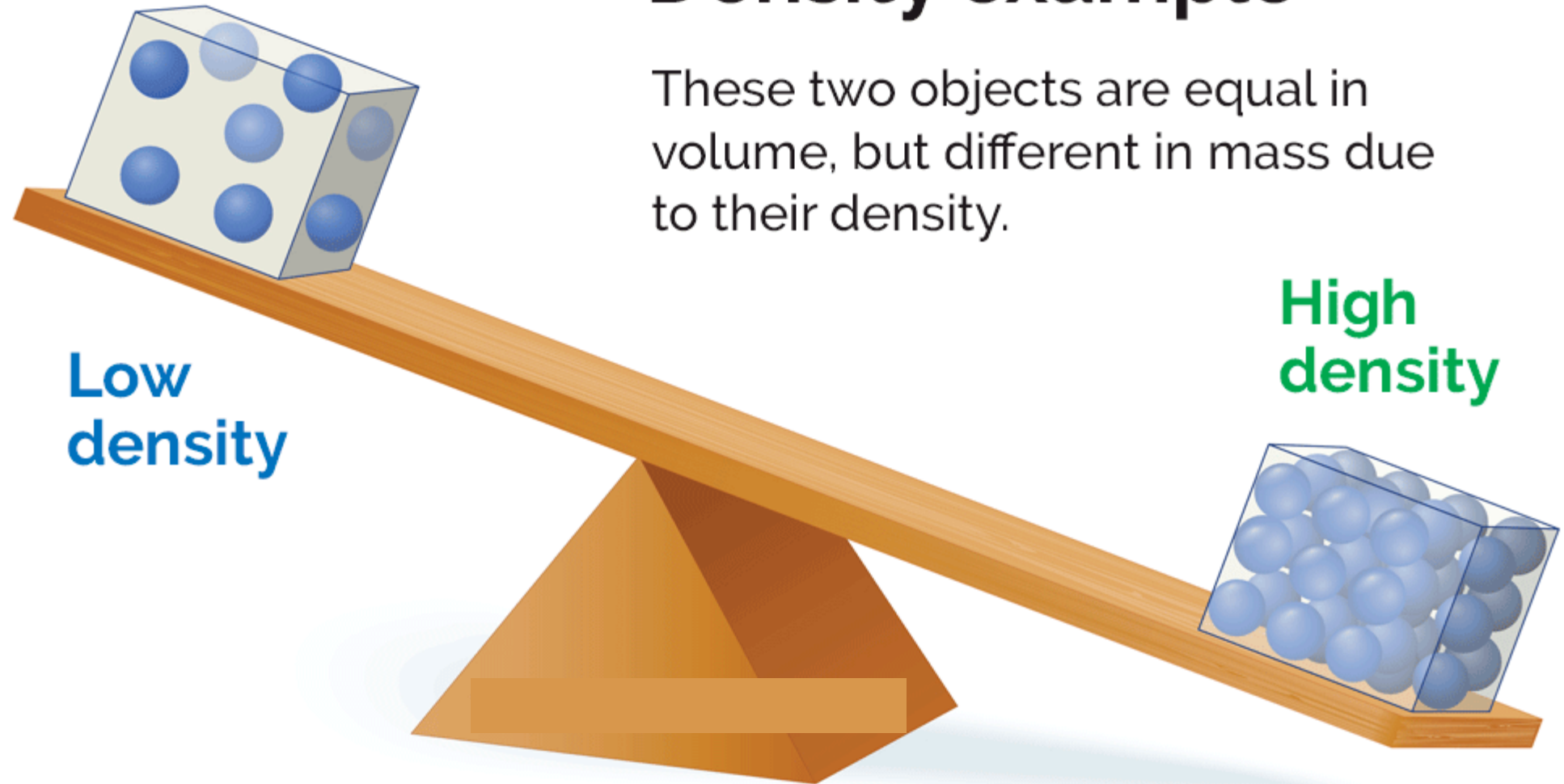


- Which of the following is the S.I. unit of density?
- घनत्व की एस.आई. इकाई निम्नलिखित में से कौन सी है?
- [A] m^{-2}
[B] m^{-3}
[C] kg m^{-2}
[D] kg m^{-3}
- **Ans:D**



Density example

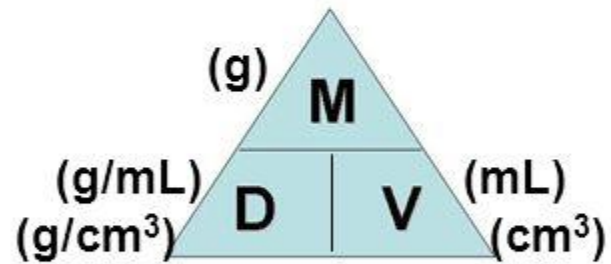
These two objects are equal in volume, but different in mass due to their density.



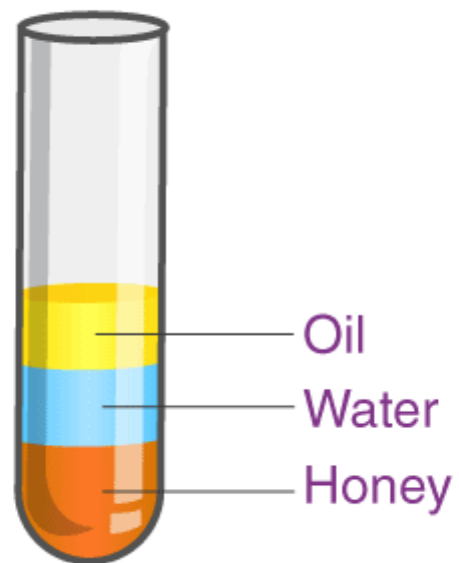
The Density Formula

$$\text{Density} = \frac{\text{Mass (g)}}{\text{Volume (mL)}}$$

(g/mL)



**The Density
T-Triangle**



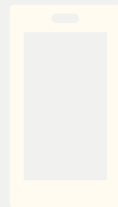
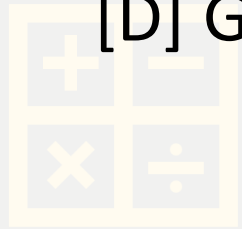


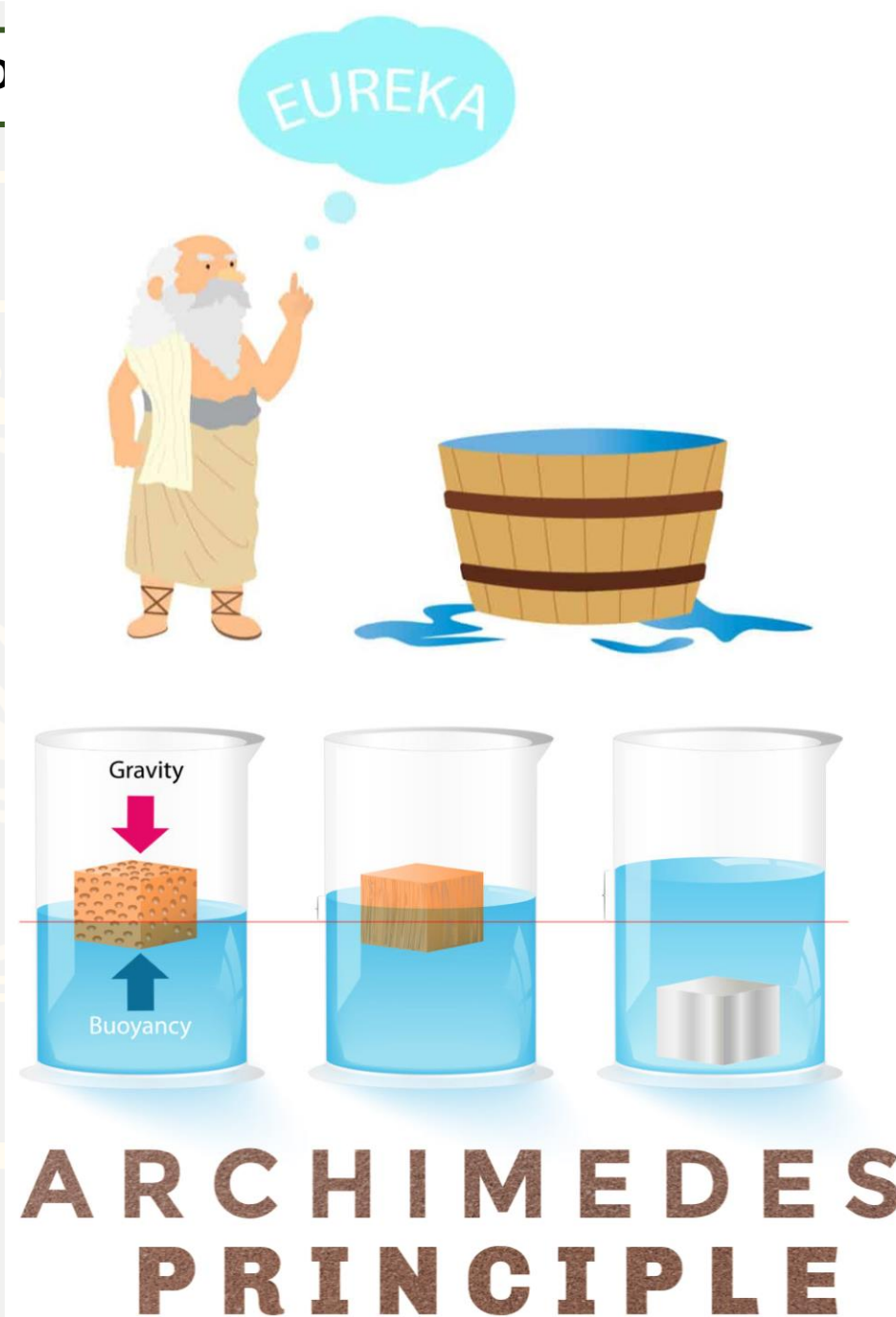
- Which of the following instruments is used to measure the relative density of a liquid?/तरल के सापेक्ष घनत्व को मापने के लिए निम्न में से किस उपकरण का उपयोग किया जाता है?
- [A] Hydrometer
- [B] Hygrometer
- [C] Lactometer
- [D] Gravitimeter

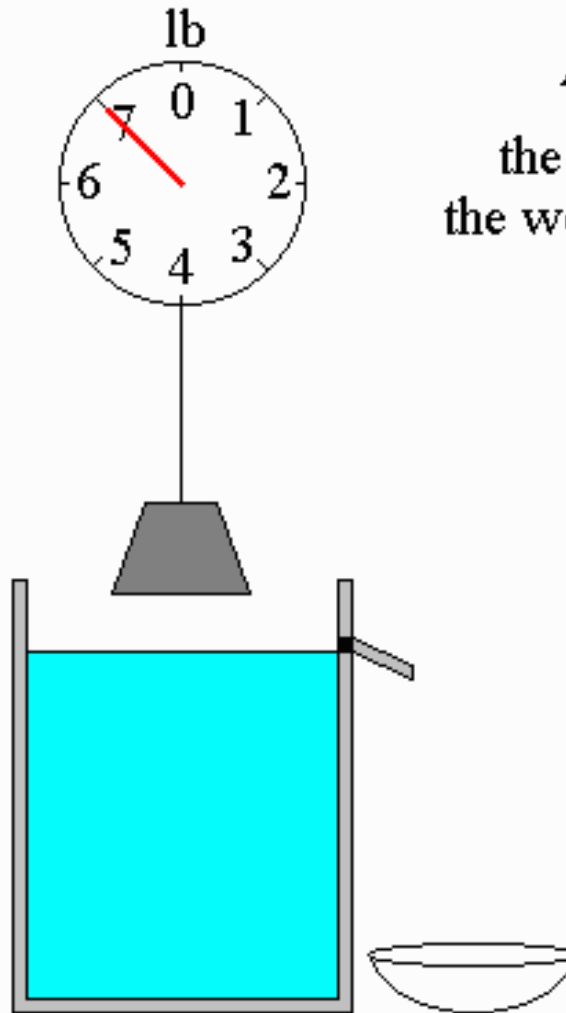
• **Ans:A**



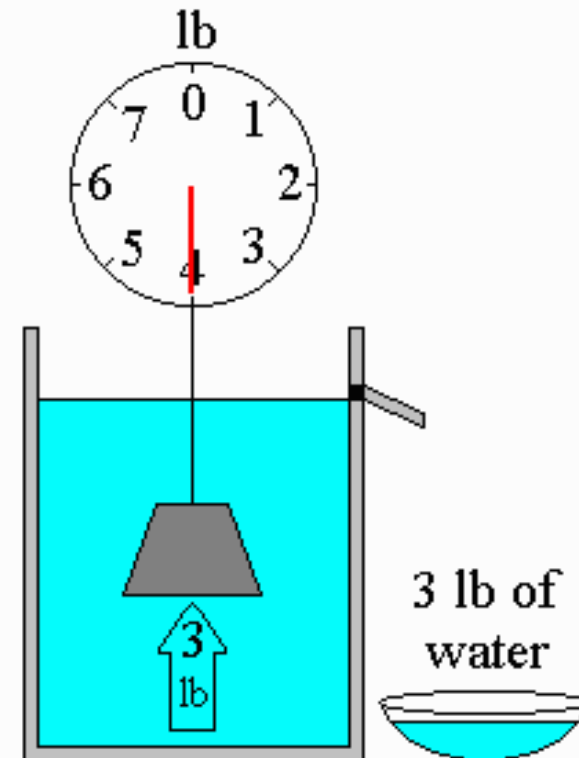
- Who was the first to state the principle of floatation?/फ्लोटेशन के सिद्धांत को बताने वाला पहला व्यक्ति कौन था?
- [A] Isaac Newton
- [B] Archimedes
- [C] Aristotle
- [D] Galileo Galilei







Archimedes' Principle
the buoyant force is equal to
the weight of the displaced water





- When will the height of water in capillary tube be minimum? / केशिका ट्यूब में पानी की ऊंचाई न्यूनतम कब होगी?
- [A] When water temperature is 0°C
- [B] When water temperature is 4°C
- [C] When water temperature is -4°C
- [D] None of the above



• What is the density of water at 4°C ? / 4° पर पानी का घनत्व कितना है?

- [A] 1.0
- [B] $1.0 \times 10^2 \text{ kg m}^{-3}$
- [C] $1.0 \times 10^3 \text{ kg m}^{-3}$
- [D] 10 kg m^{-3}

• **Ans:C**



- What of the following represents viscosity?/निम्नलिखित में से क्या चिपचिपाहट का प्रतिनिधित्व करता है?
- [A] resistance to fluid motion
- [B] pressure difference between two fluids
- [C] potential energy stored in a fluid
- [D] roughness of the surface

• **Ans:A**



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- What happens to a body when its density is greater than the density of the fluid?/किसी पिंड का क्या होता है जब उसका घनत्व द्रव के घनत्व से अधिक होता है?
- [A] it floats
[B] it sinks
[C] it stays at rest
[D] None of the above

• **Ans:B**



- What is the unit of surface tension in c.g.s system?/C.g.s प्रणाली में सतह तनाव की इकाई क्या है?
- [A] N/m
[B] dyne/cm
[C] erg/cm
[D] dyne cm
- **Ans:B**



Units of Force

- SI unit of force is a Newton (N)

$$1\text{ N} \equiv 1 \frac{\text{kg m}}{\text{s}^2}$$

Units of force

SI

Newton (N=kg m/ s²)

CGS

Dyne (dyne=g cm/s²)

US Customary

Pound (lb=slug ft/s²)

- $1\text{ N} = 10^5\text{ dyne} = 0.225\text{ lb}$



Practice Question

- Which of these is NOT an example of Periodic motion?/इनमें से कौन सा आवधिक गति का उदाहरण नहीं है?

- [A] Revolution of earth around the sun
- [B] Rotation of earth about its polar axis
- [C] Motion of minute's hand of a clock
- [D] None of the above





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