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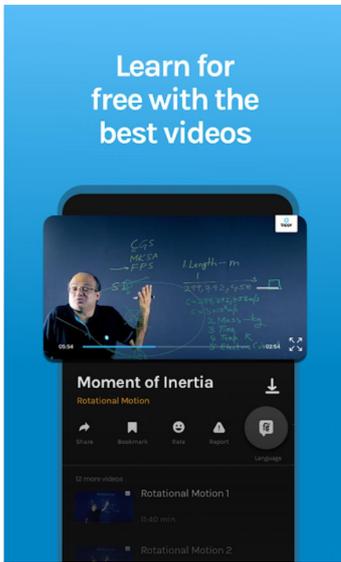
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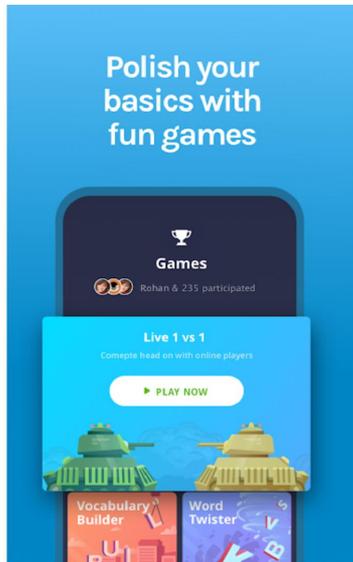


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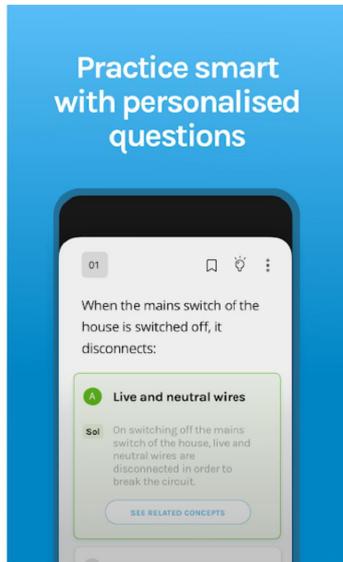
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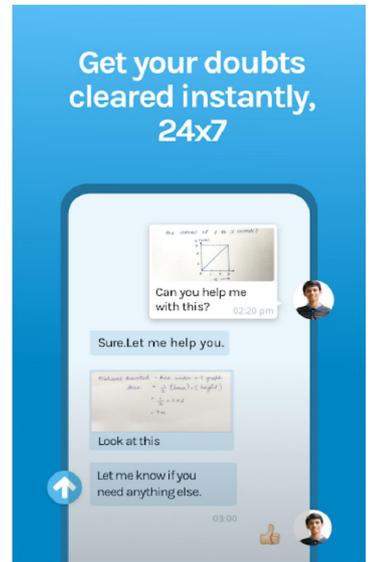
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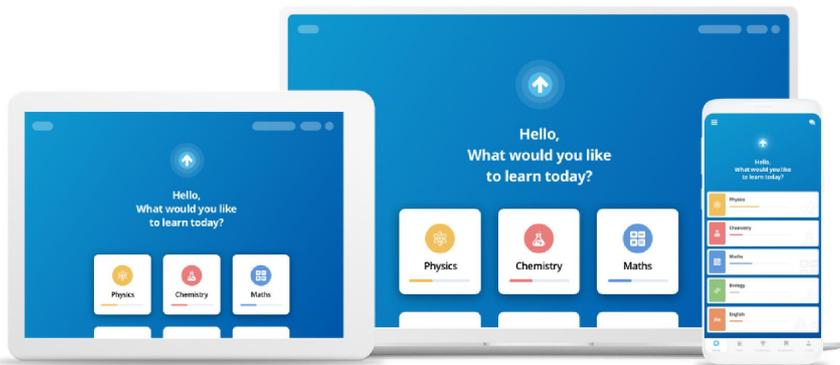
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#636907

Wind is _____ air.

Solution

Wind is moving air

Wind is the flow of gases on a large scale. On the surface of the Earth, wind consists of the bulk movement of air. In outer space, solar wind is the movement of gases or charged particles from the Sun through space, while planetary wind is the outgassing of light chemical elements from a planet's atmosphere into space.

#636910

Winds are generated due to _____ heating on the earth.

Solution

Wind is air in motion. It is produced by the uneven heating of the earth's surface by the sun. Since the earth's surface is made of various land and water formations, it absorbs the sun's radiation unevenly. Two factors are necessary to specify wind: speed and direction.

#636914

Near the Earth's surface _____ air rises up whereas _____ air comes down.

Solution

Near the earth's surface HOT air rises up whereas COLD air comes down

#636916

Air moves from a region _____ of pressure to a region _____ of pressure.

Solution

High, low.

#636923

Suggest two methods to find out wind direction at a give place.

Solution

Two methods are:

(i) Take a piece of paper in your hand. Allow it to fall from your hand. It will flow in the direction in which wind is blowing.

(ii) You can also use a wind-pane which helps us to know accurate wind direction.

#637020

State two experiences that made you think that air exerts pressure.

Solution

(i) Balloons and balls can be used only when they are inflated with air. When balloon is overfilled with air it bursts due to excessive air pressure.

(ii) Compressed air is used in the brake system or stopping trains.

#637025

You want to buy a house. Would you like to buy a house having windows but no ventilators? Explain your answer.

Solution

No, a house which has no ventilators is not a safe or healthy house to live in. The air circulation is not there in such a house. So, it has no fresh air. Because warm air rises up and goes out through ventilators and fresh air comes in through windows.

#637030

Explain why holes are made in hanging banners and hoardings.

Solution

Air exerts pressures. Wind blowing in high speed may break or displace many things. If holes are made in hanging banners and hoardings, then air can pass through these holes, which reduces the air pressure exerted on the banners and hoardings. This is why holes are made in hanging banners and hoardings.

#637044

How will you help your neighbours in case a cyclone approaches your village/ town?

Solution

When a cyclone attacks, I will follow the following approaches to help my neighbors in my village/town:-

- (i) I will make them aware of cyclone forecast and warning service.
- (ii) Rapid communication of warning to the government agencies and all the important places.
- (iii) Construction of cyclone shelters in the cyclone-prone areas.
- (iv) Helping them to shift essential goods, domestic animals etc. to safer places.

#637053

What planning is required in advance to deal with the situation created by a cyclone?

Solution

To deal with a cyclone, it is important to follow the following points.

- (i) Carefully listening to the warnings transmitted on T.V. and radio.
- (ii) Moving to safer places.
- (iii) Keeping an emergency kit ready.
- (iv) Store food in waterproof bags.
- (v) Not venturing into the sea.
- (vi) Keeping all the emergency numbers.

#637055

Which one of the following places is unlikely to be affected by a cyclone?

- A Chennai
- B Mangalore
- C Amritsar
- D Puri

Solution

" Cyclones need large bodies of moderately warm water for their formation. They gain energy through the evaporation of water from such water bodies as the warm air above the water surface rises up.

Among the mentioned places, only Amritsar is located far away from the coastal area, all the other places namely Chennai, Mangaluru and Puri are located near the sea. So Amritsar is unlikely to be affected by a cyclone.

#637061

Which of the statements given below is correct?

- A** In winter the winds flow from the land to the ocean
- B** In summer the winds flow from the land towards the ocean
- C** A cyclone is formed by a very high-pressure system with very high-speed winds revolving around it
- D** The coastline of India is not vulnerable to cyclones

Solution

(i) Correct

In winter the winds flow from the land to the ocean. This is called land breeze.

(ii) Not Correct

In summer the winds flow from the ocean towards the land. This is called sea breeze.

(iii) Not Correct

A cyclone is formed by a very low-pressure system with very high-speed winds revolving around it. The low-pressure region is called the eye of the cyclone.

(iv) Not Correct

The coastline of India is very vulnerable to cyclones.