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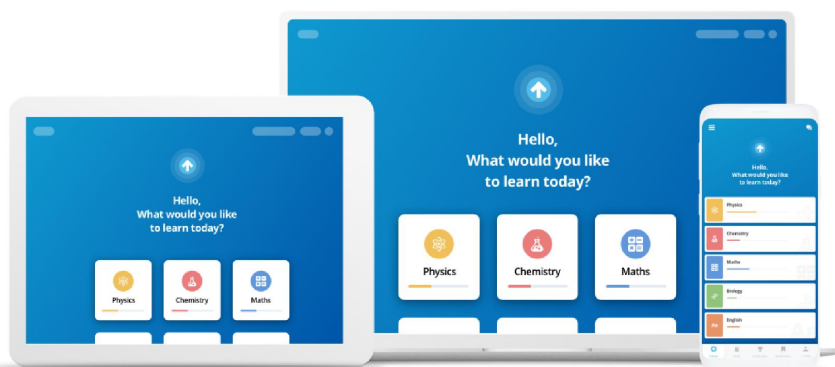
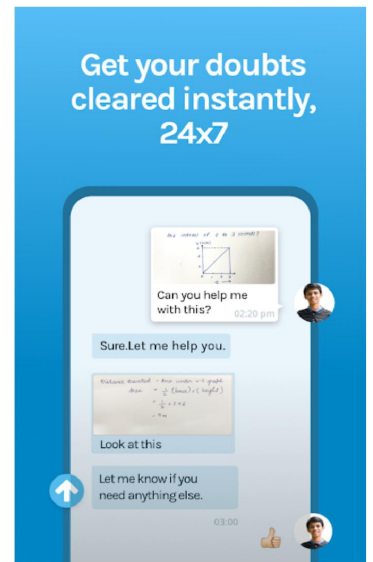
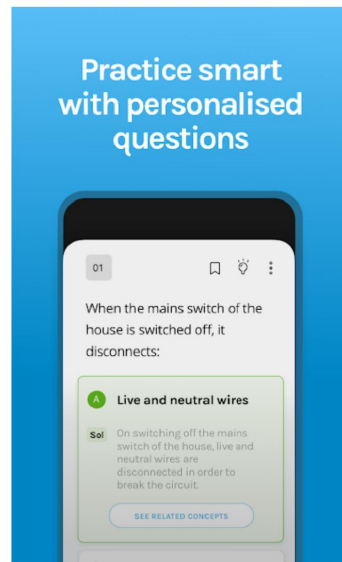
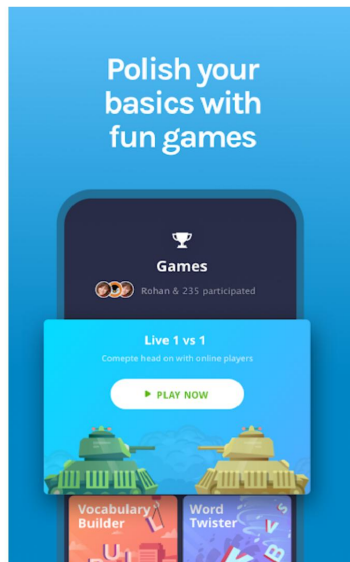
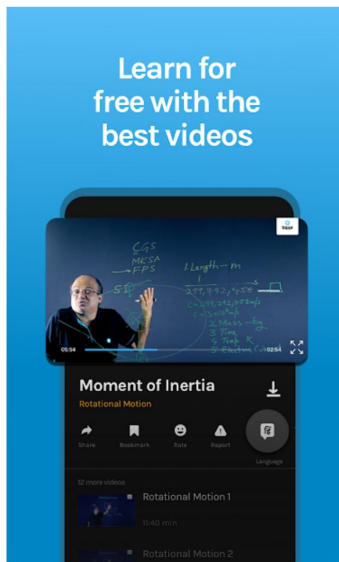
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[Class 10 Geography](#)

[Class 10 Economics](#)

[Class 10 Political Science](#)

[Class 10 General Knowledge](#)

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**#464899**

A solar water heater cannot be used to get hot water on

- A** a sunny day
- B** a cloudy day
- C** a hot day
- D** a windy day

**Solution**

A solar water heater cannot be used to get hot water on a cloudy day as there is no Sun which is necessary for the working of solar water heater.

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**#464900**

Which of the following is not an example of a biogas source of energy?

- A** Wood
- B** Gobar
- C** Nuclear Energy
- D** Coal

**Solution**

Nuclear energy is not an example of a biogas source of energy as it uses radioactive substances to produce energy.

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**#464902**

Compare and contrast fossil fuels and the Sun as direct sources of energy.

**Solution**

Solar energy is the direct source of energy. It is a renewable source of energy. Solar energy is available free of cost to all in unlimited amount.

Coal and petroleum are fossil fuels. They are obtained from deep under Earth's crust.

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**#464903**

Compare and contrast bio-mass and hydro electricity as sources of energy.

**Solution**

Both bio-mass and hydro electricity are renewable sources of energy. Biomass is obtained from dead plants and animal wastes whereas hydro electricity is obtained from energy stored in water at some height. Energy from both these sources can be obtained again and again.

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**#464904**

What are the limitations of extracting energy from

- (a) wind
- (b) waves
- (c) tides

**Solution**

(a) To generate electricity from wind energy we need the wind speed to be more than 15 km/hr. Moreover, the number of windmills needs to be large.

(b) To extract energy from waves we need strong ocean waves which are not available always.

(c) To extract energy from tides we need high tides which depends on the relative position of Sun, Moon and Earth.

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**#464906**

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What are the qualities of an ideal source of energy?

**Solution**

Ideal source of energy should be cheap, easily available, portable, should not cause pollution and should have high calorific value.

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**#464907**

What are the advantages and disadvantages of using a solar cooker? Are there places where solar cookers would have limited utility?

**Solution**

Solar energy is used in the solar cookers to cook food. As solar energy is renewable source of energy and it is available in unlimited amount, the operation cost of solar cooker is very low. But the manufacturing cost of solar cooker is very high and it doesn't work in absence of sunlight. Places where there is not enough sunlight as the days are too short or always cloudy, solar cookers cannot be used.

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**#464908**

What are the environmental consequences of the increasing demand for energy? What steps would you suggest to reduce energy consumption?

**Solution**

Industrialization all over the world has increased energy demands significantly. Fossil fuels are used in large quantities to fulfill these energy demands. Large amount of carbon dioxide is released in the atmosphere by burning of these fossil fuels and this also causes global warming.

Therefore we should not waste energy and use these resources optimally. We should try to use alternate sources of energy wherever possible.