LESSON 3

Renewable Energy



A. Write the resources of renewable and non-renewable energy in the provided spaces.



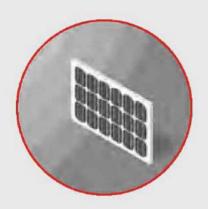
coal (non-renewable)



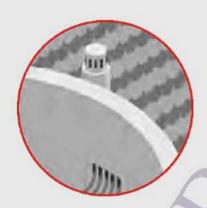
oil (non-renewable)



nuclear (non-renewable)



solar energy (renewable)



water (renewable)



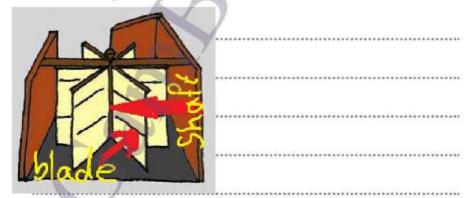
wind (renewable)

@GamBeGam-Darsi

به نظر می رسه که بچه ها این تصویر (آسباب بادی) رو تو علوم 4 ابتدایی دیدند. من ترجیح میدم اجزاش رو بهشون .بگم و بعد ازشون بخوام روش کارش رو بگن



Did you know that this machine was built in old Persia about two thousand years ago? Can you write how this machine works?



This is a windmill. The wind blows to the blades that are around a shaft and makes them move. It moves the shaft which finally ends with turning the grindstone.

كاتال گام به گام درسي :



Many countries now think that cars that burn fossil fuels should be replaced by electric cars. Electric cars don't burn gasoline in the engine, so they don't pollute the air. They use electricity stored on the car in batteries.

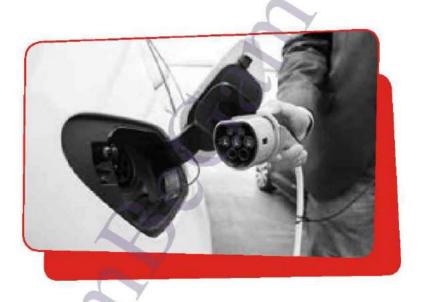
Sometimes, 12 or 24 batteries, or more, are needed to power the car. Just like a remote-controlled car, an electric car has an electric motor that turns the wheels and a battery to run the motor.

Electricity, the same energy that lights your lamps and runs your TV, is stored in batteries on an electric car. The batteries can be like the batteries you find in flashlights or in regular gasoline cars.

To get the battery ready to roll, you have to charge it. This process isn't much different from the way you charge the portable devices you carry around every day: your cell phone, MP3 player, or digital camera. The difference is that you deal with a much bigger gadget that carries you around instead.



The engineers are trying to make better batteries that hold more energy and last longer. To overcome the problem of charging electric cars, hybrid cars are also available. Hybrid cars combine the benefits of gasoline engines and electric motors. They can be designed to meet different goals, such as better fuel economy or more power.



A. True or False

- 1. Electric cars use both fossil fuel and electricity.
- TO FC

2. All electric cars have batteries.

TO FO

- 3. People can charge electric cars at home.
- TO FO

B. Answer the following questions.

1) What is an electric car?

They use electricity stored on the car in batteries instead of burning gasoline in the engine

2) Why do people use hybrid cars?

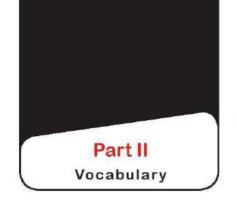
To overcome the problem of charging electric cars.

3) Have you ever seen an electric car?



C. Skim the text and write a title for it.

Batteries against Fossil Fuels/ Electric Cars



برای برخی از آیتم ها بیش از یک پاسخ امکان پذیر است. برای بعضی واژگان تصویر

A. Make new words by combining the items in line 1 with those in line 2.



full power=to the fullest extent of the energy or for ce€that something can due The chi es are running at full power.

B. Odd one out.

- 1. a. water
- b. tree
- c. coal
- d. sun
- non-renewable

- 2. a. pollution
- b. waste
- c. garbage
- d. resource

- 3. a. yard
- b. balcony
- c. roof
- d. motor

- 4. a. absorb
- b. use up
- c. generate
- d. digest

produce; create

به نظرم چون بقیه یه جورایی مصرف کننده یا گیرنده هستن

C. Write the Persian equivalent of the following English proverbs.

 Money does not grow on trees.

پول علف خرس نیست



باد آورده را باد می برد



3. There's no place like home.

هيچ جا خونه آدم نميشه



4. Absence makes the heart grow fonder.

دوری و دوستی



D. Fill in the blanks with the given words. Make the necessary changes.

		•••••	
remind	generate	variety	
arrang	gement	resource	

- Special arrangements can be made for guests with disabilities.
- 2. The students constantly had to be **reminded** about their homework.
- 3. Asia is a continent rich in natural resources
- 4. The people of this city come from a variety of different backgrounds.
- 5. Wind turbines **generate** electricity for the local community.

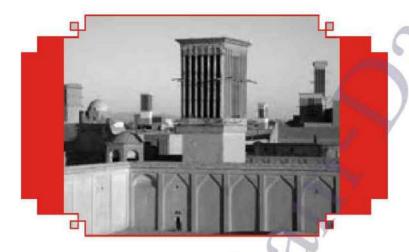


A. Fill in the blanks with the correct form of the verbs.

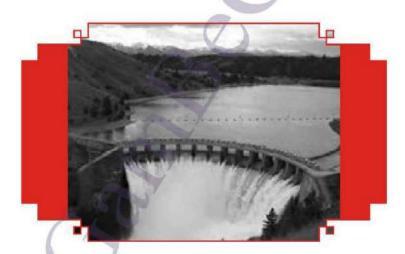
- 1. The river may be polluted (pollute) with aluminum.
- 2. The list can be arranged (arrange) alphabetically.
- 3. Nowadays power can be generated (generate) by resources other than fossil fuels.
- 4. The waste should be collected (collect) every night to be sent to the landfill.



B. Look at the pictures and write passive sentences.



Many tourists are attracted by wind towers in Yazd.



Electricity can be generated from hydropower.





Heat from solar energy can be used to cool our house.



The air we breathe can be polluted by factories that use fossil fuels.

C. Answer the following questions.

1. Should fossil fuels be saved for our children?

Yes, they should.

2. Can electricity be generated from plants?

Yes, it can.

3. Have you ever seen a solar panel?

Yes, I have./ No, I haven't.

4. How does a solar panel work?

A solar panel collects heat by absorbing sunlight and producing solar power.



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1. I had eaten (eat) lunch before (go out)



2. When I got home (get) home, she had already fallen asleep (fall asleep)



3. She was upset (upset) because she had gotten a bad score

(get a bad score)



A. Look at the following figure and write a paragraph about it.

Eat fewer snacks and select healthier alternatives.	Get active each day.
5	Choose water as a drink.
Turn off the TV or computer and get active.	Eat more fruit and vegies.

WITH THE PROPERTY OF THE PARTY	► Technology ► Smoking ► Charity	
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