

FORCE, WORK & ENERGY

Name: _____ 3° ESO _____

1. Listen and fill the gaps.

Hey! Today mama has asked me to clean the garden. Yes, we should remove all the stones. I can't move it! Can you help me? Sorry! Mama won't allow that. Put some more _____! What is _____? When we try to _____ or _____ something it means we are putting force. Yes! To stop something also we need to _____ force. Oh! Thank you! Do you know force can also change the direction of the things?	
Let's focus on _____. Oh! I've done a lot of work. I pushed that stone too much. In <i>science language</i>, you have not done any work. Why? Whatever force you _____ but if things do not move, that means, work is not done. Why? Oh! So let me leave this big stone. Let me _____ these smaller ones. Yeah! This is the right choice. At least you're moving few things and some work is being _____.	
Oh! I don't have _____ to walk. I don't have ability to work. I'm tired. Yes, you're right. Energy is ability to work. Do cars also use energy?. Yes, they use _____ or gas as energy. So the coal, or gas, has energy which makes things to _____. All things require energy to move. So we can _____ energy. Yes, energy can be stored like in the petrol tank of a car. Oh! I used so much force and energy but very less work was done. Yes. To me you applied lot of force and you used so much of your _____ energy but she would only move few things. Hands. Less work was done.	
Now we would see different _____ of energy. Oh! This bulb is giving so much of _____. Yeah! Adverse on electric energy. Hey! This fire is giving so much of heat. This is called _____ energy. Okay. Tell me! What energy is this? You're doing work with your muscular energy. Oh! It is so hot here! You know where heat is coming from? Yeah! I know. It is all coming from the _____. Yes! You're right. Energy which comes from the Sun is called solar energy. You know this _____ at night does not need electricity.	

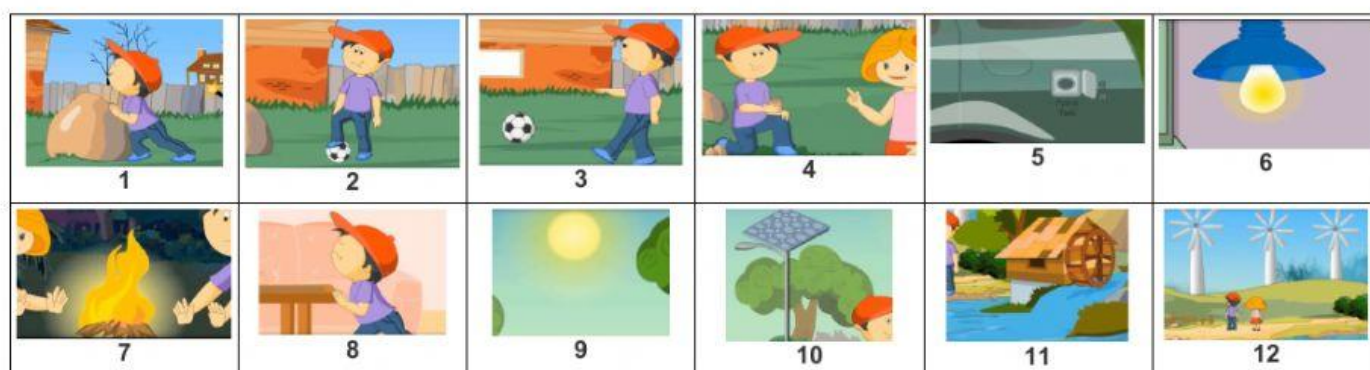
You **see** that panel. Yes. It **stores** solar energy during the **day** from **Sun** and at **night** it **gives** that energy to the **bulb**. Oh! So this but **works** on solar energy.

Let me **show** you **something**. Hey! _____ **has** so much **force**. Oh! This **is** energy of **water** with more **things**. Hmm. This **is called** **water energy**. Yeah! This **is called** **hydroenergy** because **water is** also **called** **hydro**.

Oh! These **are** big _____. These **are called** _____. They **produce** electricity. Hey! Listen! **Wind helps** in electricity also. This **is called** **wind energy**. Hey! Listen! It's **getting** so _____! Let's **go** home.



2. Listen and choose the described image.



1 ^a :	2 ^a :	3 ^a :	4 ^a :	5 ^a :	6 ^a :
7 ^a :	8 ^a :	9 ^a :	10 ^a :	11 ^a :	12 ^a :

3. Working on groups, describe the selected image. Then read the description to Elisabeth. She should guess it.