

## Penguin and energy transfers

Based on the cartoon from « Animals save the planet »  
 (On [www.youtube.com](http://www.youtube.com), browse “animals save the planet”)



1. Where does the cartoon take place?  
\_\_\_\_\_
2. What animals can you see in the cartoon?  
\_\_\_\_\_
3. Fill in the sentences:
  - a. When \_\_\_\_\_ feeds the penguin with \_\_\_\_\_, the penguin starts pedalling.
  - b. When the penguin \_\_\_\_\_, he produces \_\_\_\_\_ to \_\_\_\_\_.
  - c. The faster he pedals, the more \_\_\_\_\_.
  - d. Now make a similar sentence, using the words: fish, big, fast:  
\_\_\_\_\_
  - e. The second bulb needs \_\_\_\_\_ to produce the same lighting.
4. What kind of bulb is the second one? \_\_\_\_\_
5. Write down the sentence heard at the end of the cartoon: (using the words: bulbs, ordinary, saving, fifth)  
\_\_\_\_\_  
\_\_\_\_\_

**Physics:**

1. What form(s) of energy is(are) given to the penguin?  
\_\_\_\_\_
2. What form(s) of energy is(are) produced by the penguin?  
\_\_\_\_\_
3. The machine behind the penguin is an **alternator**. Fill in the diagram:



Make a sentence according to this diagram.  
\_\_\_\_\_

4. Draw a similar diagram for :
  - a. the lightbulb
  - b. the penguin