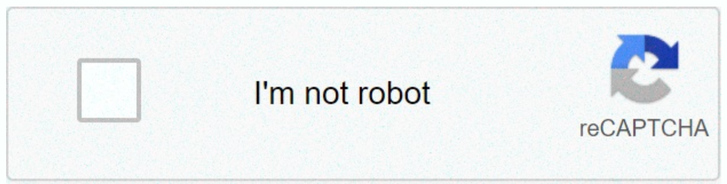

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Energy in a cell virtual lab answers

This simulation can be used as a virtual laboratory for photosynthesis, cellular breathing and primary performance. Oxygen levels are controlled in the aquatic environment to measure oxygen production and consumption as part of energy conversion processes. The user can choose the number of fish and plants, the intensity of light, light color and temperature. Three virtual laboratory sheets are currently available. Go to the Word Document Resources or Google Drive page to fully digitally format. The TedEd video above was captured on YouTube on 4/18/13. Photosynthesis equation 6CO2 + 6H2O → C6H12O6 + 6O2 Cellular Respiratory Equation C6H12O6 + 6O2 → 6CO2 + 6H2O Study the equations above carefully. What do you watch them? Do they have anything in common? Are chemical compounds familiar to you in reactants and products? They represent how matter and energy are produced

and stored in plants and other photosynthetic organisms and how matter is split and energy is released so that organisms can function. Equations also represent how matter cycles through the environment. In fact, photosynthesis and cellular respiration are important processes in water, carbon and oxygen cycles. Look at the equation again, and this time pay attention to the number of atoms of each element in the compounds. Do you see the pattern? You can see the case presented, but can you see the energy? Energy is trapped in the ligaments that form atoms when compounds such as glucose are created. To release energy, food must break down. Go to the next section to see how much energy you can store in food. Let's look at energy and matter in cells using caloriemetry. Calories are a way to measure energy transmission. In this investigation, we will use calorium to find out how much energy is stored in cashews. In fact, there are a few questions we can answer from the data taken when performing the experiment. Here are the questions to answer: – How much energy is stored in cashews? – How much energy is stored in 1 gram of cashews? – Do your data agree with the nutrition label? – What is your percentage error? – What percentage of matter has re-entered the atmosphere? Watch the first video to make observations and record data. An image of a food label captured from . Watch the video tutorial calories below to review the calculations needed to answer questions from the investigation.