

oxygen debt. An oxygen debt is the amount of oxygen needed to get rid of the lactic acid that has built up and to help anaerobic respiration to begin again. That is why deep breathing occurs after exercising. The word equation for this is:



- Plants and Fungi produce Ethanol and Carbon Dioxide. Under certain circumstances plants may have to turn to anaerobic respiration. Some fungi – like yeast – also respire anaerobically too.

The produce ethanol and carbon dioxide instead of lactic acid. The word equation for this is :



### Key Differences

Aerobic Respiration	Anaerobic Respiration
<ul style="list-style-type: none"> <li>- Has plenty of oxygen</li> <li>- The glucose fully breaks down</li> <li>- Produces lots of ATP</li> <li>- Gases are exchanged</li> </ul>	<ul style="list-style-type: none"> <li>- Not enough oxygen</li> <li>- The glucose is only partially broken down</li> <li>- Produces little ATP</li> <li>- Gases are not exchanged</li> </ul>

### Glossary

- Enzyme – A biological catalyst produced by a living organism to help a certain biochemical reaction.
- Glucose – A simple sugar used a source of energy in living organisms.
- ATP – (Adenine Triphosphate) carries energy within cells.
- Molecule – Two or more cells bonded together.
- Proteins - Big molecules made of one or more chains of amino acids.
- Lipids - A lipid is a large biomolecule that is soluble in nonpolar solvents.
- Carbohydrates - A carbohydrate is a biomolecule consisting of carbon,