

## 7. Cellular Respiration

1. Aerobic cellular respiration is the processes that creates ATP energy by breaking down glucose and other food molecules in the presence of oxygen
2. Anaerobic cellular respiration (fermentation) is the process that creates ATP without oxygen being present. Lactic acid and alcoholic fermentation are the two types.

<b>Comparison of aerobic and anaerobic respiration</b>			
	<b>Aerobic</b>	<b>Anaerobic</b>	
		In animals	In plants, yeasts
<b>Oxygen required?</b>	Yes	No	No
<b>Occurs in...</b>	Cytoplasm and Mitochondria	Cytoplasm	Cytoplasm
<b>Glycolysis occurs?</b>	Yes	Yes	Yes
<b>Citric acid cycle occurs?</b>	Yes	No	No
<b>ETC?</b>	Yes	No	No
<b>ATP yield</b>	36 ATP / glucose	4 ATP / glucose	4 ATP / glucose
<b>End products</b>	CO <sub>2</sub> and H <sub>2</sub> O	Lactic acid	Ethanol and CO <sub>2</sub>