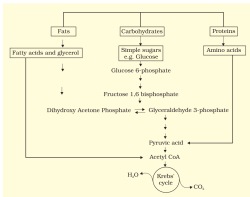
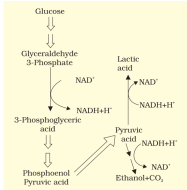


$$RQ = \frac{\text{Volume of CO}_2 \text{ Consumed}}{\text{Volume of CO}_2 \text{ Evolved}}$$



R.Q. values = 1 (for carbohydrate...  
 R.Q. = 0.7...  
 R.Q. = 0.9...

**Fermentation**  
 (Incomplete oxidation of pyruvic acid, under anaerobic condition)



R.Q formula

**Respiratory Quotient**

**Definition**  
 Respiration is an energy releasing enzymatically controlled catabolic process which involves a step-wise oxidative breakdown of food substances inside living cells

**Respiration in Plants**  
 Educational Services Private Limited  
 NEET, JEE (Mains/Advanced)  
 अभ्यास ही सबसे बड़ा गुरु है।

**Amphibolic Pathway**  
 Respiration is termed as amphibolic pathway as it involves both anabolism and catabolism

**Aerobic respiration**

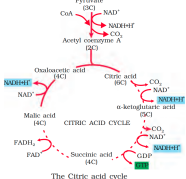
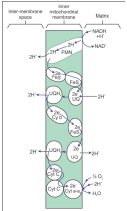
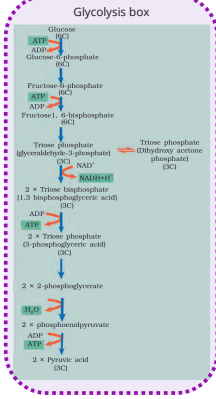
**Glycolysis Or EMP pathway (Site: Cytoplasm)**

**TCA Tricarboxylic Acid (Matrix of Mitochondria)**

**2nd of - Electron transport chain (Site: Inner mitochondrial membrane)**

**1st of - Oxidative Phosphorylation Site: F0- F1 particles in the inner mitochondrial membrane.**

**3rd of - TCA/ Tricarboxylic Acid (Site: Matrix of mitochondria)**



The Citric acid cycle