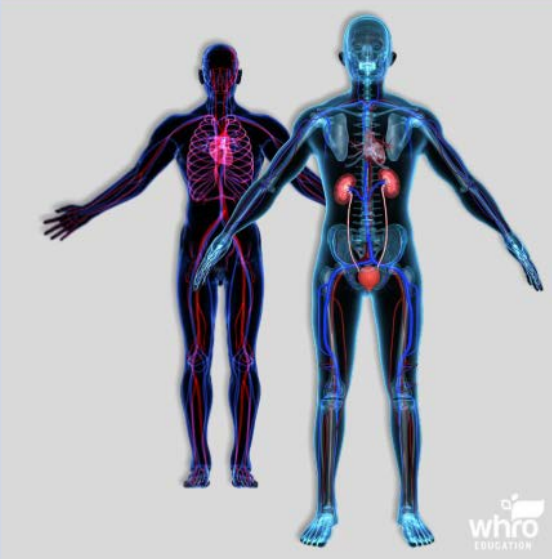


# Module 3: Cell Biology - Structure and Function

## Topic 3 Content: Metabolic Processes Notes

### Introduction


Metabolic Processes	Click each of the terms to explore how the different metabolic processes are performed in multicellular organisms.
Select a term:	
<a href="#">Circulation</a>	
<a href="#">Digestion</a>	
<a href="#">Excretion</a>	
<a href="#">Gas Exchange</a>	
<a href="#">Movement</a>	
<a href="#">Obtain Energy</a>	
<a href="#">Protection</a>	
<a href="#">Reproduction</a>	

Click each of the terms to explore how the different metabolic processes are performed in multicellular organisms.

## Module 3: Cell Biology - Structure and Function

### Topic 3 Content: Metabolic Processes Notes

#### Circulation

Metabolic Processes	Circulation
Select a term:	<p>The circulatory system transport materials throughout the body.</p> 
Circulation	
Digestion	
Excretion	
Gas Exchange	
Movement	
Obtain Energy	
Protection	
Reproduction	

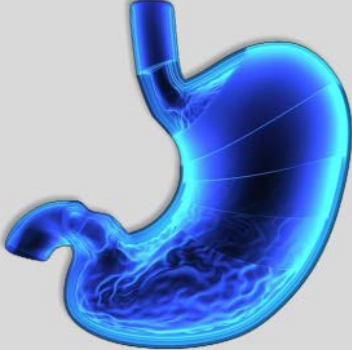
The circulatory system transport materials throughout the body. The circulatory system in the human body is responsible for circulating blood, which supplies nutrients and oxygen and removes various waste products.

## Module 3: Cell Biology - Structure and Function

### Topic 3 Content: Metabolic Processes Notes

#### Digestion

Metabolic Processes	Digestion
Select a term:	
Circulation	
<b>Digestion</b>	Digestive enzymes in the stomach break down food molecules.
Excretion	
Gas Exchange	
Movement	
Obtain Energy	
Protection	
Reproduction	

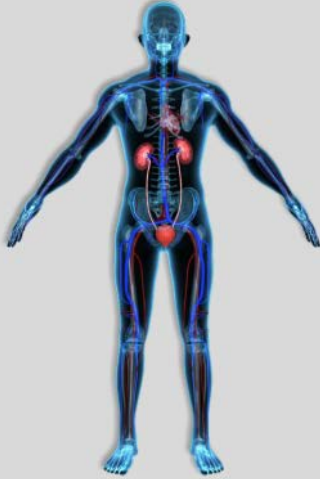


Digestive enzymes in the stomach break down food molecules.

# Module 3: Cell Biology - Structure and Function

## Topic 3 Content: Metabolic Processes Notes

### Excretion

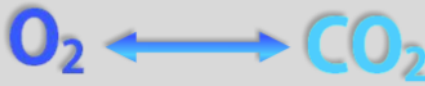
Metabolic Processes	Excretion
Select a term:	Urinary and excretory systems get rid of waste. 
Circulation	
Digestion	
<b>Excretion</b>	
Gas Exchange	
Movement	
Obtain Energy	
Protection	
Reproduction	

Urinary and excretory systems get rid of waste.

## Module 3: Cell Biology - Structure and Function

### Topic 3 Content: Metabolic Processes Notes

#### Gas exchange

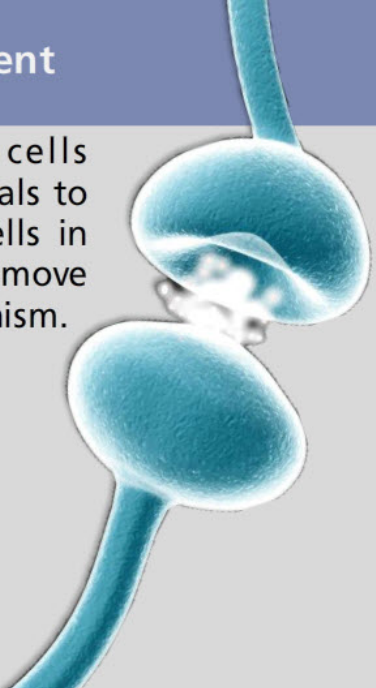
Metabolic Processes	Gas Exchange
Select a term:	Respiratory and circulatory systems exchange oxygen and carbon dioxide.  
Circulation	
Digestion	
Excretion	
<b>Gas Exchange</b>	
Movement	
Obtain Energy	
Protection	
Reproduction	

Respiratory and circulatory systems exchange oxygen and carbon dioxide.

## Module 3: Cell Biology - Structure and Function

### Topic 3 Content: Metabolic Processes Notes

#### Movement

Metabolic Processes	Movement
Select a term:	<p>Nerve cells send signals to muscle cells in order to move the organism.</p> 
Circulation	
Digestion	
Excretion	
Gas Exchange	
<b>Movement</b>	
Obtain Energy	
Protection	
Reproduction	

Nerve cells send signals to muscle cells in order to move the organism.

## Module 3: Cell Biology - Structure and Function

### Topic 3 Content: Metabolic Processes Notes

#### Obtain energy

Metabolic Processes	Obtain Energy
Select a term:	
Circulation	
Digestion	
Excretion	
Gas Exchange	
Movement	
<b>Obtain Energy</b>	
Protection	
Reproduction	

Organisms ingest food, which is converted into the energy molecule, adenosine triphosphate.

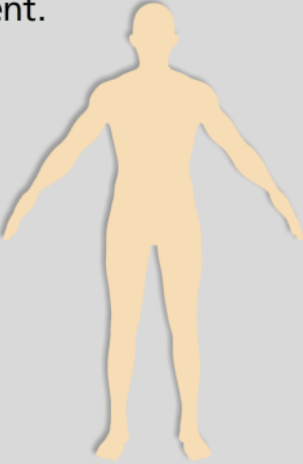
**ATP**

Organisms ingest food, which is converted into the energy molecule, adenosine triphosphate.

## Module 3: Cell Biology - Structure and Function

### Topic 3 Content: Metabolic Processes Notes

#### Protection

Metabolic Processes	Protection
Select a term:	<p>The skin protects the body from the external environment.</p> 
Circulation	
Digestion	
Excretion	
Gas Exchange	
Movement	
Obtain Energy	
<b>Protection</b>	
Reproduction	

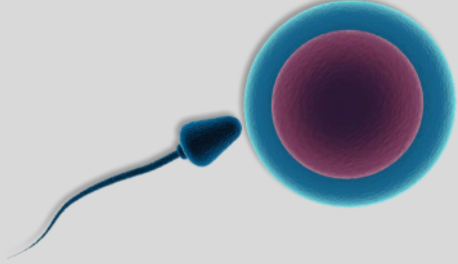
The skin protects the body from the external environment.



## Module 3: Cell Biology - Structure and Function

### Topic 3 Content: Metabolic Processes Notes

#### Reproduction

Metabolic Processes	Reproduction
Select a term:	<p>Specialized cells in the reproductive system fuse with other specialized cells from another human to reproduce.</p>  An illustration showing a sperm cell on the left, which is small and teardrop-shaped with a long tail. To its right is a larger egg cell, which is spherical with a blue outer layer and a purple inner core.
Circulation	
Digestion	
Excretion	
Gas Exchange	
Movement	
Obtain Energy	
Protection	
Reproduction	

Specialized cells in the reproductive system fuse with other specialized cells from another human to reproduce.