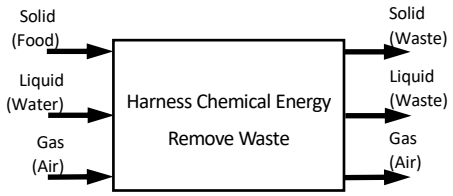
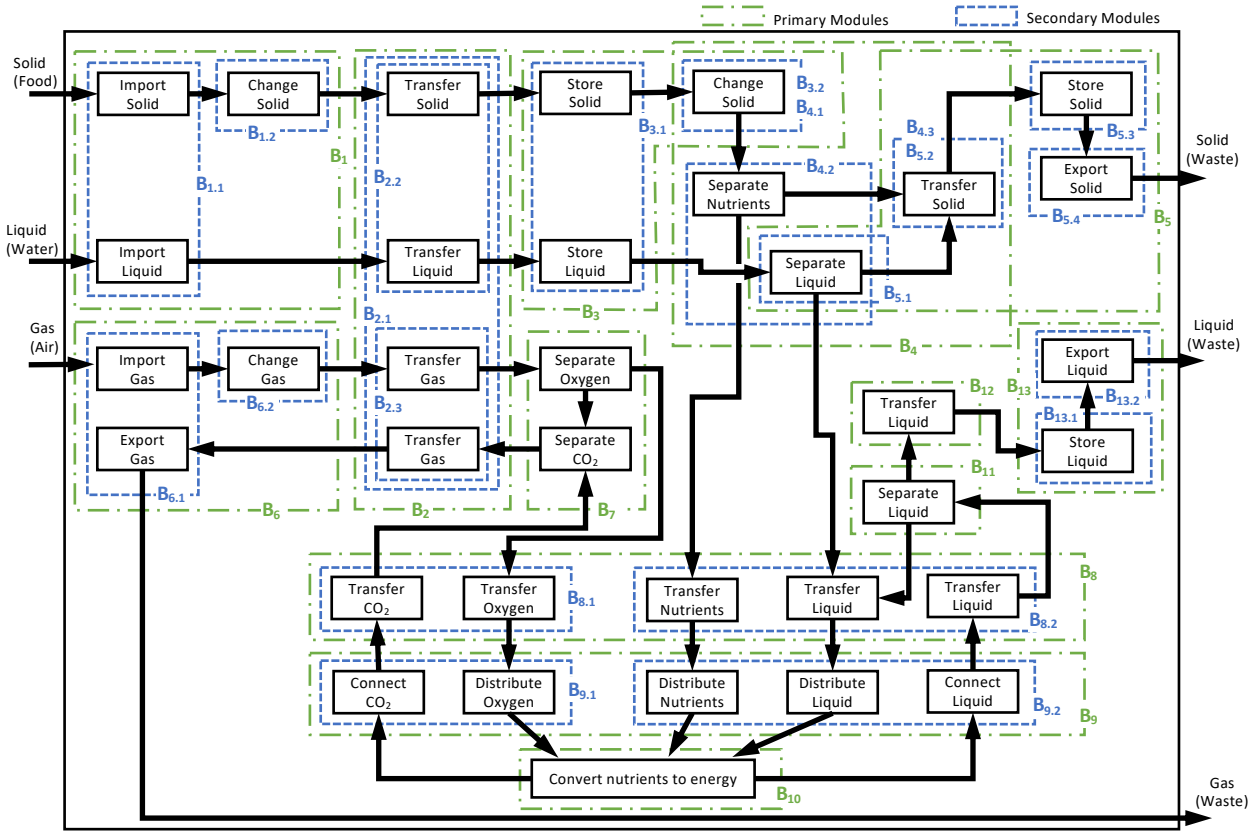
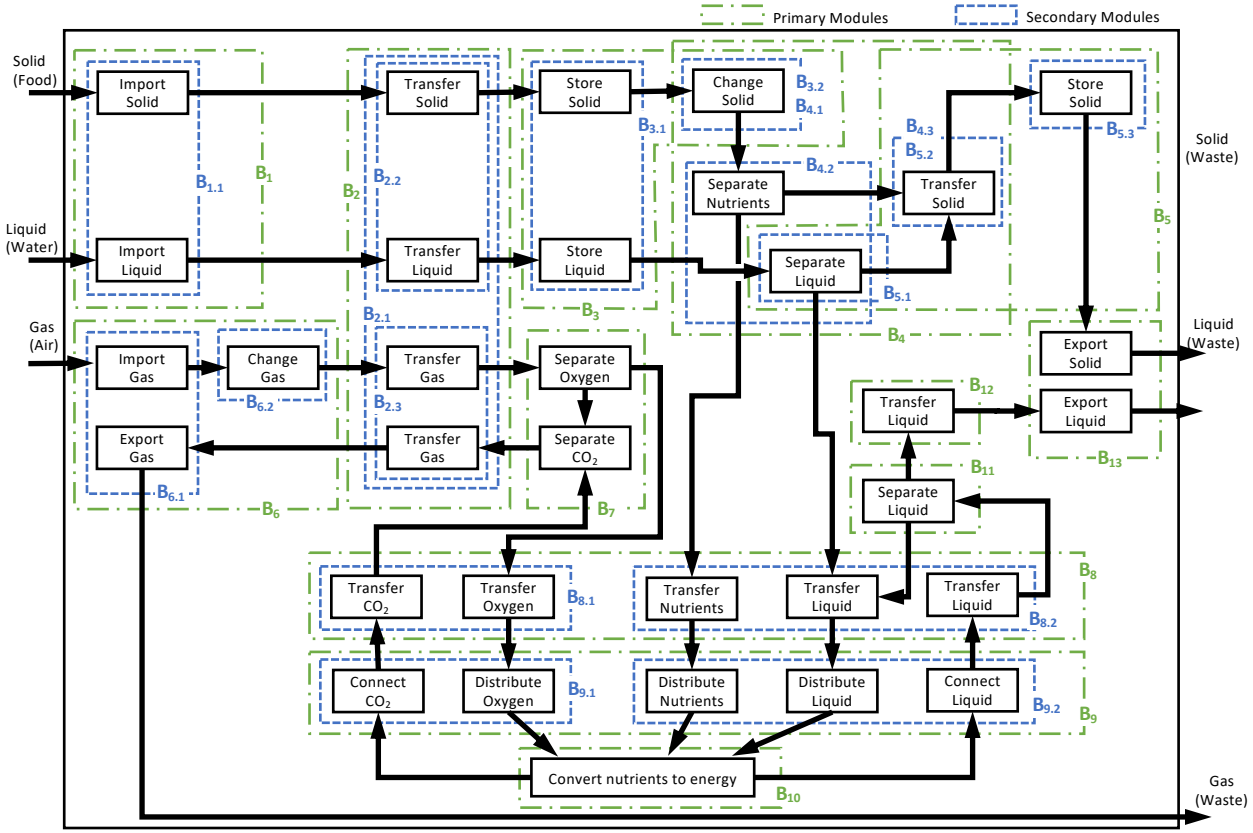

Solid
(Food)
Liquid
(Water)
Gas
(Air)
Harness Chemical Energy
Remove Waste
Solid
(Waste)
Liquid
(Waste)
Gas
(Air)

MAMMALIA



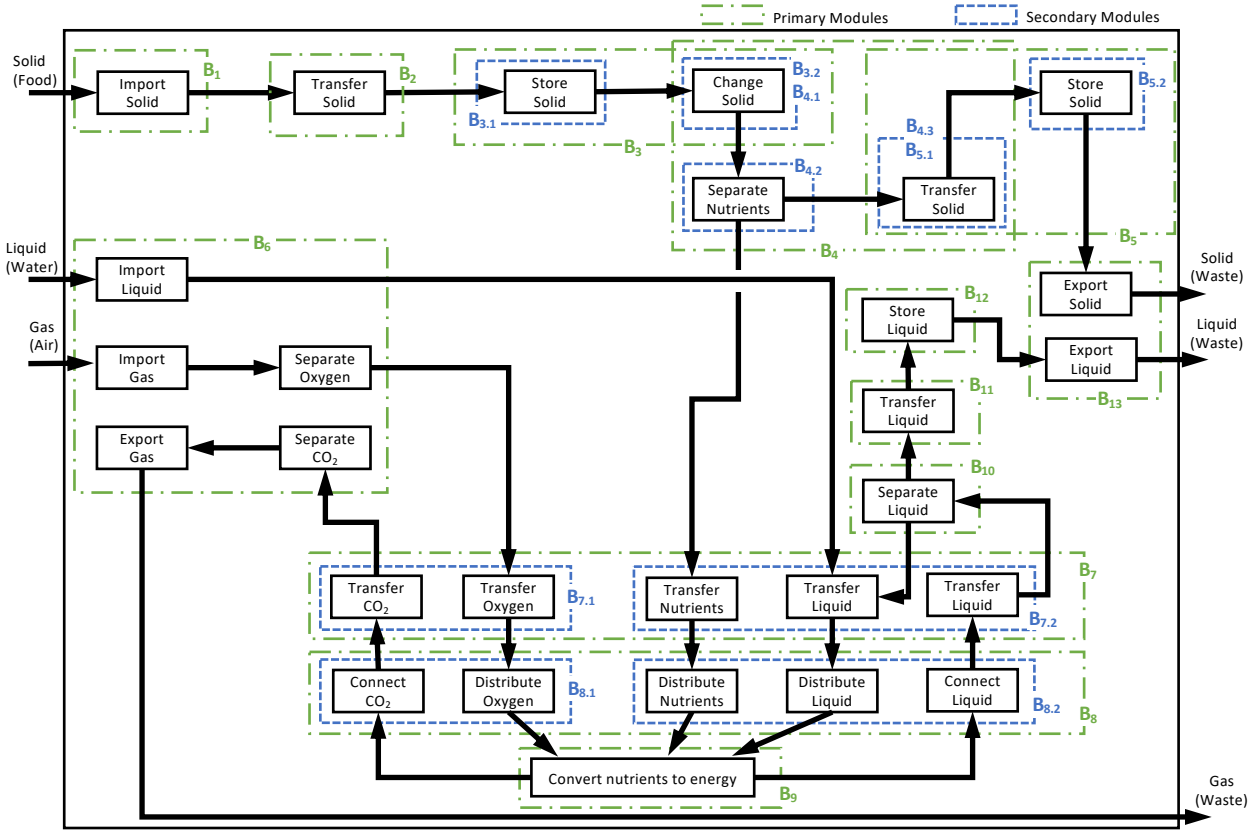
Primary Level		Secondary Level	
B_1	Mouth	$B_{1.1}$	Mouth Passage
		$B_{1.2}$	Teeth
B_2	Throat	$B_{2.1}$	Pharynx
		$B_{2.2}$	Esophagus
		$B_{2.3}$	Trachea
B_3	Stomach	$B_{3.1}$	Stomach Passage
		$B_{3.2}$	Stomach Lining
B_4	Small Intestine	$B_{4.1}$	Duodenum Lining
		$B_{4.2}$	Jejunum Lining
		$B_{4.3}$	Outer Muscles
B_5	Large Intestine	$B_{5.1}$	Outer Muscles
		$B_{5.2}$	Intestine Passage
		$B_{5.3}$	Sphincter Muscles
B_6	Nose	$B_{6.1}$	Nasal Passage
		$B_{6.2}$	Nasal Hair
B_7	Lungs	$B_{7.1}$	N/A
B_8	Blood	$B_{8.1}$	Red Blood Cells
		$B_{8.2}$	Plasma
B_9	Blood Vessels	$B_{9.1}$	Arteries
		$B_{9.2}$	Veins
B_{10}	Consumer Cells	$B_{10.2}$	N/A
B_{11}	Kidneys	$B_{11.2}$	N/A
B_{12}	Ureters	$B_{12.2}$	N/A
B_{13}	Urinary Bladder	$B_{13.1}$	Bladder Space
		$B_{13.2}$	Sphincter Muscles

REPTILIA



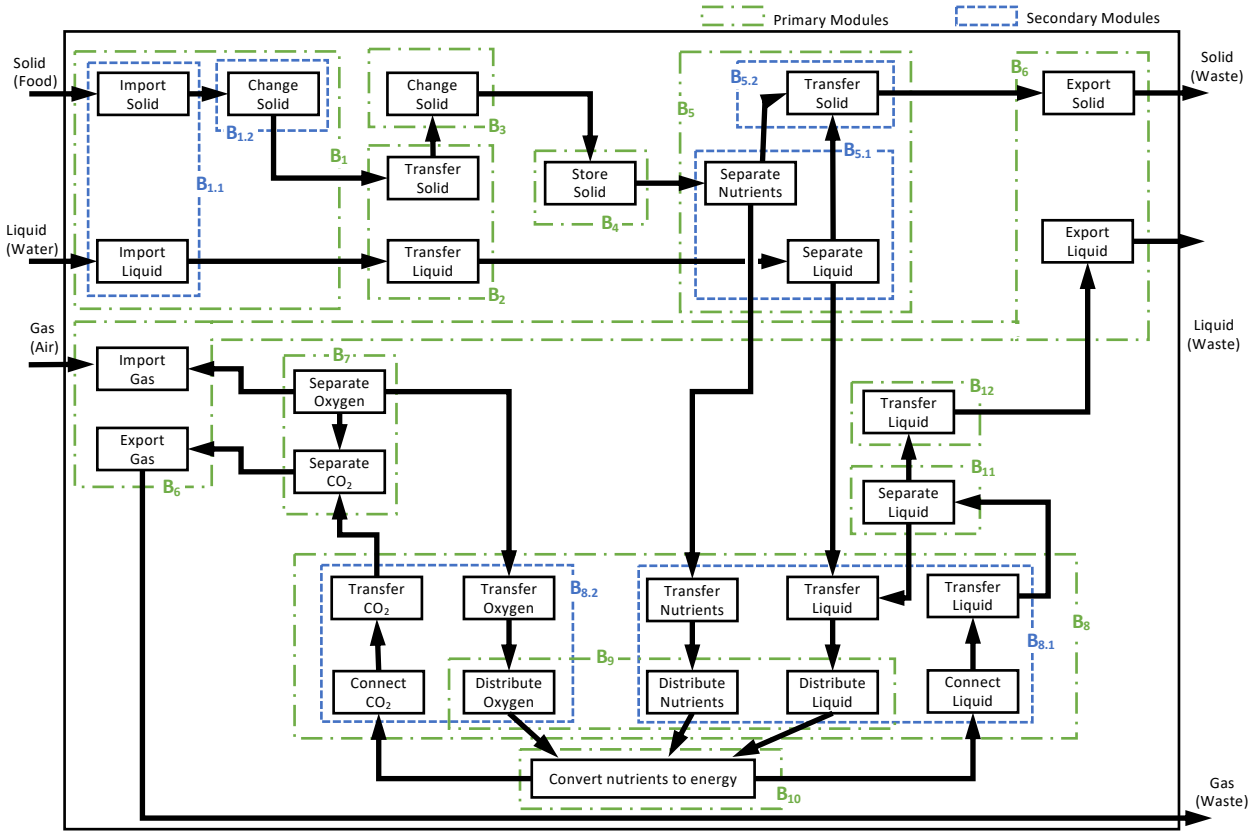
Primary Level		Secondary Level	
B_1	Mouth	$B_{1.1}$	N/A
B_2	Throat	$B_{2.1}$	Pharynx
		$B_{2.2}$	Esophagus
		$B_{2.3}$	Trachea
B_3	Stomach	$B_{3.1}$	Stomach Passage
		$B_{3.2}$	Stomach Lining
B_4	Small Intestine	$B_{4.1}$	Duodenum Lining
		$B_{4.2}$	Jejunum Lining
		$B_{4.3}$	Outer Muscles
B_5	Large Intestine	$B_{5.1}$	Outer Muscles
		$B_{5.2}$	Intestine Passage
		$B_{5.3}$	Sphincter Muscles
B_6	Nose	$B_{6.1}$	Nasal Passage
		$B_{6.2}$	Nasal Hair
B_7	Lungs	$B_{7.1}$	N/A
B_8	Blood	$B_{8.1}$	Red Blood Cells
		$B_{8.2}$	Plasma
B_9	Blood Vessels	$B_{9.1}$	Arteries
		$B_{9.2}$	Veins
B_{10}	Consumer Cells	$B_{10.2}$	N/A
B_{11}	Kidneys	$B_{11.2}$	N/A
B_{12}	Ureters	$B_{12.2}$	N/A
B_{13}	Cloaca	$B_{13.1}$	N/A

AMPHIBIA



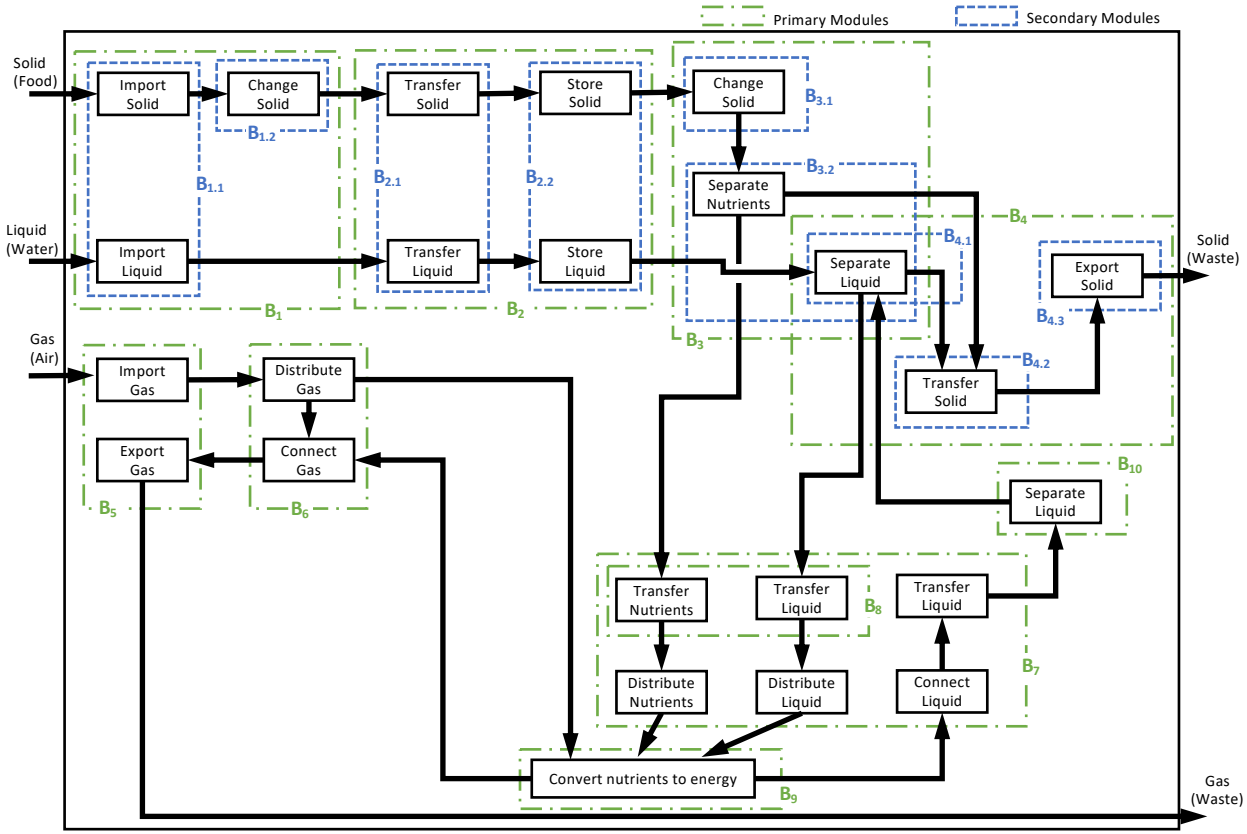
Primary Level		Secondary Level	
B_1	Mouth	$B_{1.1}$	N/A
B_2	Esophagus	$B_{2.1}$	N/A
B_3	Stomach	$B_{3.1}$	Stomach Passage
		$B_{3.2}$	Stomach Lining
B_4	Small Intestine	$B_{4.1}$	Duodenum Lining
		$B_{4.2}$	Jejunum Lining
		$B_{4.3}$	Outer Muscles
B_5	Large Intestine	$B_{5.1}$	Outer Muscles
		$B_{5.2}$	Intestine Passage
B_6	Skin	$B_{6.1}$	N/A
B_7	Blood	$B_{8.1}$	Red Blood Cells
		$B_{8.2}$	Plasma
B_8	Blood Vessels	$B_{9.1}$	Arteries
		$B_{9.2}$	Veins
B_9	Consumer Cells	$B_{10.2}$	N/A
B_{10}	Kidneys	$B_{11.2}$	N/A
B_{11}	Ureters	$B_{12.2}$	N/A
B_{12}	Bladder	$B_{12.2}$	N/A
B_{13}	Cloaca	$B_{13.1}$	N/A

GASTROPODA

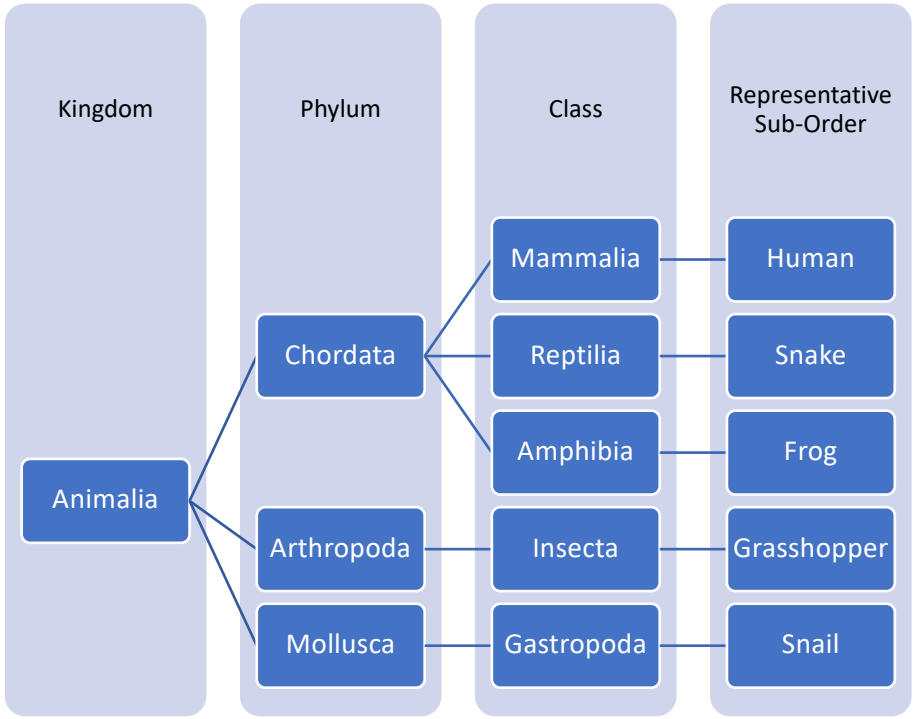


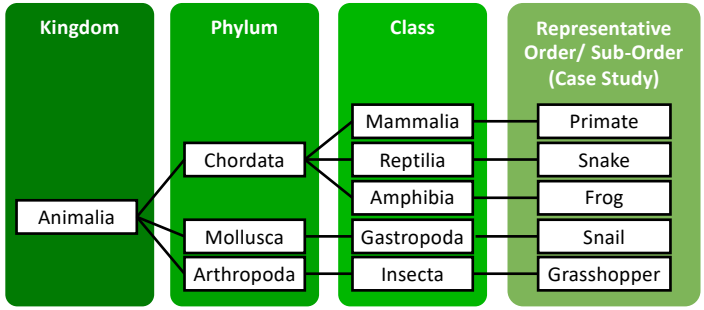
Primary Level		Secondary Level	
B_1	Mouth	$B_{1.1}$	Mouth Passage
		$B_{1.2}$	Teeth
B_2	Esophagus	$B_{2.1}$	N/A
B_3	Stomach	$B_{3.1}$	N/A
B_4	Digestive Gland	$B_{4.1}$	N/A
B_5	Intestine	$B_{4.1}$	Inner Lining
		$B_{4.2}$	Outer Muscles
B_6	Pore	$B_{5.1}$	N/A
B_7	Gill	$B_{6.1}$	N/A
B_8	Blood	$B_{8.1}$	Hemocyanin
		$B_{8.2}$	Plasma
B_9	Coelom	$B_{9.1}$	N/A
B_{10}	Consumer Cells	$B_{10.1}$	N/A
B_{11}	Kidneys	$B_{11.1}$	N/A
B_{12}	Ureters	$B_{12.1}$	N/A

INSECTA

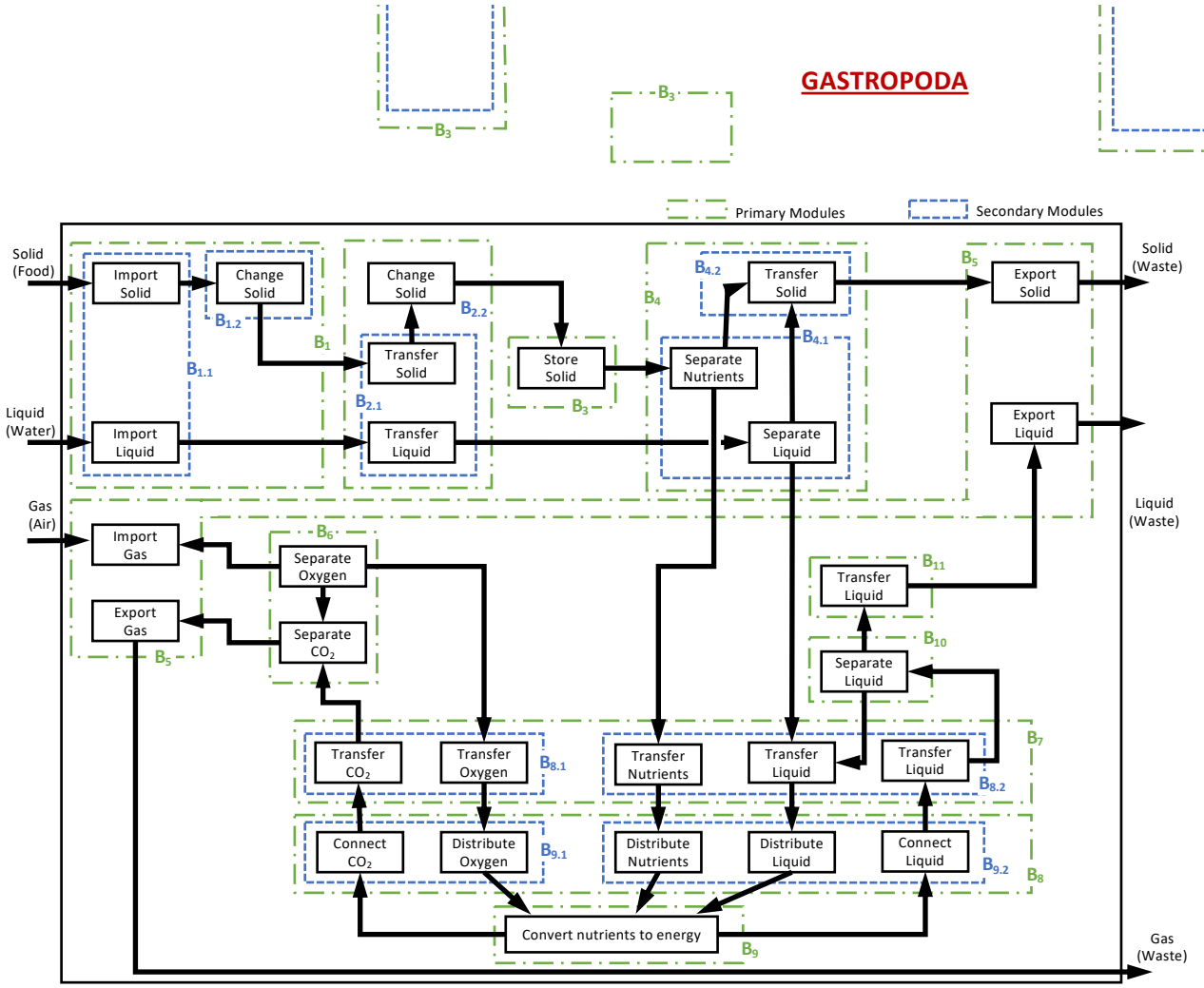


Primary Level		Secondary Level	
B_1	Mouth	$B_{1.1}$	Mouth Passage
		$B_{1.2}$	Teeth
B_2	Foregut	$B_{2.1}$	Esophagus
		$B_{2.2}$	Crop
B_3	Midgut	$B_{3.1}$	Diverticula
		$B_{3.2}$	Inner Lining
B_4	Hindgut	$B_{4.1}$	Epithelial Lining
		$B_{4.2}$	Hindgut Passage
		$B_{4.3}$	Sphincter Muscles
B_5	Spiracles	$B_{5.1}$	N/A
B_6	Tracheae	$B_{6.1}$	N/A
B_7	Haemolymph	$B_{7.1}$	N/A
B_8	Haemocols	$B_{8.1}$	N/A
B_9	Consumer Cells	$B_{9.1}$	N/A
B_{10}	Malpighian Tubes	$B_{10.1}$	N/A


Kingdom
Phylum
Class
Representative Sub-Order
Animalia
Chordata
Arthropoda
Mollusca
Mammalia
Reptilia
Amphibia
Insecta
Gastropoda
Human
Snake
Frog
Grasshopper
Snail


Kingdom
Phylum
Class
Representative Order/ Sub-Order (Case Study)
Animalia
Chordata
Mollusca
Arthropoda
Mammalia
Reptilia
Amphibia
Gastropoda
Insecta
Primate
Snake
Frog
Snail
Grasshopper

GASTROPODA



Primary Level		Secondary Level	
B_1	Mouth	$B_{1.1}$	Mouth Passage
		$B_{1.2}$	Teeth
B_2	Esophagus	$B_{2.1}$	Cilia
		$B_{2.2}$	Crop
B_3	Digestive Gland	$B_{3.1}$	N/A
B_4	Digestive Gland	$B_{3.1}$	N/A
B_5	Intestine	$B_{4.1}$	Inner Lining
		$B_{4.2}$	Outer Muscles
B_5	Pore	$B_{5.1}$	N/A
B_6	Gill	$B_{6.1}$	N/A
B_7	Lungs	$B_{7.1}$	N/A
B_8	Blood	$B_{8.1}$	Red Blood Cells
		$B_{8.2}$	Plasma
B_9	Blood Vessels	$B_{9.1}$	Arteries
		$B_{9.2}$	Veins
B_{10}	Consumer Cells	$B_{10.2}$	N/A
B_{11}	Kidneys	$B_{11.2}$	N/A
B_{12}	Ureters	$B_{12.2}$	N/A
B_{13}	Urinary Bladder	$B_{13.1}$	Bladder Space
		$B_{13.2}$	Sphincter Muscles