

Ward's Digital Slides: Middle School Life Science Set

Image Listing Included:

LS1:	Molecules to organisms: Structures and processes		
LS1.A	How do the structures of organisms help them to perform life's functions? (Structure and Function) Compare cells that perform similar functions in plants and animals. Compare epithelial cells of animal skin and epidermal cells of plants; vascular tissue of plants and animal arteries and veins; support structures of plants compared to bones; how is nutrition transported in plants and animals?	917444	Zea, Mature Root
		917448	Zea Stem
		917882	Dianthus leaf
		923671	Frog Artery, Vein, Nerve
		931214	Wood Fibers
		933036	Stratified Squamous Epithelium
		933319	Mammalian-Joint
		933321	Mouse Tail
		934534	Ileum-Peyer's Patches
		940210	Cork
		918142	Ranunculus Root
LS1.B			
LS1.C			
LS1D	How do organisms detect, process, and use information about the environment?(Information processing) Sense organs detect information and pass it to the nervous system for processing. The common sense organs can be examined to see how they connect to the nervous system. The basic structures of a reflex arc can be discussed by following a sensory signal through the sensory ganglia and the spinal cord that generates a responsive signal out to the muscle cells.	933617	Giant Multipolar Motor Neurons
		933657	Motor Nerve Endings
		933703	Spinal Cord
		933711	Spinal ganglion
		933775	Cochlea-Inner Ear of Guinea Pig
		933777	Crista Ampularis
		933781	Eye General Structure
		933787	Olfactory Epithelium
		934458	Neuro-Epithelium
		937018	Scalp-Unpigmented (Human)
LS2:	Ecosystems: Interactions, energy and dynamics		
LS2.A			
LS2.B	How do organisms in an ecosystem get the materials and energy they need? (Flow of Matter and Energy Transfer in Ecosystems) In a pond ecosystem, there are autotrophic, primary producers that convert light energy to food (algae, elodea) that is eaten by primary consumers (vegetarians) and secondary consumers (ex. carnivores). This occurs at the single cell level as well as the macroscopic level in the digestive systems of multicellular organisms. Decomposers, like bacteria, complete the cycling of matter and energy.	900557	Spirillum volutans
		902042	Escherichia coli
		910560	Mixed Green Algae
		917128	Elodea-Submerged Leaf
		920024	Amoeba proteus
		920116	Euglena
		920411	Paramecium caudatum
		922050	Daphnia
		923135	Zebra Fish Hatchling
		934534	Ileum-Peyer's Patches
		910270	Chlymdomonas
		920005	Mixed Protozoa

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LS2.C

LS2.D

LS3: Heredity: Inheritance and variation of traits

LS3.A How are the characteristics of one generation of organisms related to the next generation? (Inheritance of Traits)
 Traits are passed from one generation to the next through reproduction which transfers DNA to the next generation through several mechanisms. Look at examples of mitosis and meiosis, asexual reproduction in animals, and gametes in plants and animals.

918056	Tobacco Flower
920651	Hydra Adult With Bud
932240	Fish Blasto-disc
932244	Meiosis & Mitosis
932271	DNA in Animal Cells
935505	Rat Sperm
935524	Ovary-Oogenesis
938015	Drosophila Chromosomes

LS3.B

LS4: Biological evolution: Unity and diversity

LS4A

LS4.B

LS4.C

LS4.D

What is biodiversity and how do humans affect it and how does it affect humans? (Biodiversity and Humans)
 This group contains examples from the major classifications of in a variety of classification schemes. Bacteria, Archaeobacteria, Archaezoa, protista, chromista, plant, fungi, and animal (invertebrate and chordate) are represented. Additional examples representing other groupings are also available in this set.

900526	Mixed Archaeobacteria
902039	Streptococcus pneumoniae
910560	Mixed Green Algae
913211	Mushroom Anatomy-Coprinus
917206	Lilium Leaf Epidermis
920116	Euglena
920630	Hydra Plain
920820	Planaria Plain
923013	Amphioxus
924233	Giardia lamblia-Trophozoites
900152	Bacteria smear 3 types

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