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RESOURCES AND MATERIALS

BOOK LIST *(used in all four years of Logic Stage science)*

The Kingfisher Science Encyclopedia (KSE)

The Usborne Internet-Linked Science Encyclopedia (USE)

Encyclopedia of Science, DK Publishing (DSE)

*The Usborne Illustrated Dictionary of Science (DB) (3 years of the Logic Stage)

or The Usborne Illustrated Dictionary of Biology (this year only)

LAB MATERIALS

Biology for Every Kid, VanCleave, Janice (BEK)

Home Science Tools Home Microscope

or Thames and Kosmos TK2 Microscope and Biology Kit

or comparable microscope (will also be used in high school courses)

Botanical Discoveries Kit, DuneCraft (BDK)

Owl Pellet Dissection Kit, Home Science Tools or any brand (OPK)

Blood Typing Kit, Home Science Tools or any brand (BTK)

Microscope Slide-making Kit or equivalent (MSK), Home Science Tools or any brand

Eosin Y stain

Methylene blue stain

Pipette

Plain slides, 12

Concavity slides, 2

Coverslips

Storage box for slides

**This work contains 3 volumes: Usborne Illustrated Dictionary of Biology, Usborne Illustrated Dictionary of Chemistry, and Usborne Illustrated Dictionary of Physics.*

Prepared microscope slides (SLD) available from Home Science Tools and other sources

hydra budding

frog sperm

frog ovary

allium (onion) root tip showing mitosis

lilium (lily anther) showing meiosis

flower buds, 2 types - monocot and dicot

insect legs, 4 types

fish scales, 3 types – cycloid, ctenoid, placoid (only cycloid is required)

muscle, 3 types – striated, smooth, cardiac

Uncover a Tarantula book/model, Silver Dolphin Books

Uncover a Frog book/model, Silver Dolphin Books

Uncover a Cobra book/model, Silver Dolphin Books

It is recommended that you gather all non-living/non-perishable supplies ahead of time. A large (15 quart or greater) plastic tub with lid is well suited for this purpose.

Some materials will need to be obtained from a science supply company such as Home Science Tools or Nasco. Many others can be found by ‘shopping’ around the house. For the rest, discount superstores can be a convenient choice since they carry a wide variety of materials at reasonable prices.

A note on lab kit alternatives

Should you choose not to purchase all of the recommended kits, you will find abundant alternatives in the Janice VanCleave book Biology for Every Kid. It contains 101 experiments pertaining to plants, animals and the human body. Feel free to substitute with activities from this resource.