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PARTIAL LIST OF LESSONS: AVAILABLE (and PLANNED)

NATURE OF SCIENCE

Realm & Limits

Flat Earth
 Magic Hooley Stick
 Sunsets, Souls & Senses
 How's Your Horoscope?
 (Drops on a Penny)
 CONPTT: Science vs Non-Science
 Which Idea is Best?: Fair Test
 Perception is Not Always Reality

Basic Processes

Find the Washer
 Three-Hole Bottle
 The Great Volume-Exchanger
 Teaching Evolution & Creation
 Becoming Whales: Discover/Confirm
 (Sex, Drugs, and Disasters)

Social Context

Mystery Boxes
 Palpating Pachyderms
 Sketch a Scientist
 False Assumptions
 Crime Scene Scenario
 Crime Against Plants
 Checks Lab
 Theory, Theory
 Women's Brains (Bias)
 Using Creation Stories ... Popular
 Misconceptions About Evolution

ORIGIN OF LIFE

Creating Coacervates
 [Looking for More Good Lessons]

EVOLUTION

Geo/Paleo Patterns, Gen'l

Date a Rock Deep Time
 Varve Dating Time Machine
 Patterns in Time **NEW**
 History of Everything: Timeline
 13 Ways to Tell Time Backwards
 The Great Fossil Find
 Lengthy Relationships
 Teaching About Evolution & Creation
 Virtual Age Dating Tutorial (GeoLabs)
 Understanding Geol. Time (UCMP)

Human Evolution Patterns

Hominid Cranial Comparison (Skulls)
 Chronology Lab
 Comparison of Hominid Chromosomes
 Chromosome Connection 2
 Chromosome Fusion
 Mystery of the Matching Marks **NEW**
 Molec.Sequences & Primate Evolution
 Footsteps in Time: Laetoli
 Classrm Cladogram: Vert./Human Evo.
 Primate Classification (nested boxes)

Classification & Relationships

Making Cladograms
 Molecular Biology & Phylogeny (cyto-c)
 Why Cladistics?
 What, If Anything, Is A Zebra?
 Molecular Biology & Phylogeny
 Cladistic Analysis is a Zip...Baggie
 Nuts & Bolts: Classification, Arbitrary, or
 Not? (uses Primate Classif. example)
 Tutorial: Investigating Evol. Questions,
 Using Online Molec. Databases (NABT)
 What did *T. rex* taste like?UCMP tutorial

Adaptations & Contrivances

Contrivances: Panda's Thumb, Orchids
 Blocks & Screws: Contrivances
 Why Don't Whales Have Legs?
 (Evolution at the Zoo)

Variation & Natural Selection

Natural Selection: a Cumulative Process
 Chaos & Order: Living on the Edge
 Natural Selection of Stick-Worms
 Natural Selection of Bean Hunters
 Chips are Down: Nat. Sel. Simulation
 Bebbledwark World (nat.sel.sim.)
 What Darwin Never Saw
 Origami Birds
 When Milk Makes You Sick
 Lamarck vs Darwin: Dueling Theories
 (The Beak of the Finch)
 (Monarchs, Viceroy's, Mimicry)
 (Face Lab)
 (Peanuts)
 (Founders Keepers)

Speciation

A Step in Speciation
 Island Biogeography: a Lizard Tale
 (Elephant Lab)
 (Grouse: A Species Problem)

Macro-Evolution

Macroevolution: Patterns/Trends
 A Peek at the Past: Different Patterns
 Theory Choices: Dinosaur Extinction
 Becoming Whales: Discover & Confirm
 Whale Ankles & DNA **NEW**
 Pseudogenes, Vit.C & Common Ancestry