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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)  
 (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  
 Case of the Threespine Stickleback **NEW**