Date Lesson Class Topic Homework Assignment due Tomorrow

Aug 26 Introduction, demonstrations HW1 Google Biology, find 3 interesting things

Aug 27 Observe/Infer, HW2 Teach a family member observe/infer

Aug 28 Measuring & Metric System

Aug 31 Scientific Problem Solving HW3 slice of bread and baggie

Sept 1 Termite Lab 1 finish lab design

Sept 2 Termite Lab 2 Lab report

Sept 3 Scientific Method 1 HW4 read p8-15, do WB p6-8 #1-21

Sept 4 Scientific Method 2

Sept 7 LABOR DAY

Sept 8 Skittles Lab & Graphing Data

Sept 9 Peanut Lab & observations

Sept 10 Review study for test

Sept 11 **Test** on Scientific process & method *Call Zoo*

Sept 14 Characteristics of Life 1 HW5 choose your living thing, start poster

Sept 15 Characteristics of Life 2 sketch out poster design

Sept 16 Characteristics of Life 3 – work on poster *no homework* night, posters due

Sept 17 Levels of Organization (PR1)

Sept 18 *Mythbusters Videos*

Sept 21 Water Cycle & Global Warming 1 HW6 find online precipitation levels

Sept 22 Water Cycle & Global Warming 2

Sept 23 Water Cycle & Global Warming 3 CL Why should I care? sheets

Sept 24 Carbon Cycles

Sept 25 *Nitrogen Cycle*

Sept 28 Ecology & Food Webs 1 HW7 read section 3-2, p67-73. Do WB

Sept 29 Ecology & Food Webs 2 Permission Forms for Zoo

Sept 30 Inspiration Food Web CL finish food web

Oct 1 Ecology PowerPoints finish posters (PR2)

Oct 2 Food Web Posters

Oct 5 Design a Zoo intro

Oct 6 Ecological Relationships assign ppt project

Oct 7 Relationships PPTs *no homework night*

Oct 8 Aquatic Ecosystems ppts due tomorrow (PR3)

Oct 9 Aquatic Ecosystems food chain

Oct 12 FALL BREAK

Oct 13 FALL BREAK

Oct 14 Energy Pyramids HW8 Turn in permission forms

Oct 15 Abiotic Factors & graphs

Oct 16 ZOO

Oct 19 Abiotic Graphing HW9 biome graph reading in OneNote

Oct 20 Population Interactions & Graphing CL Wolf & moose.xls

Oct 21 Populations & Limiting Factors

Oct 22 Populations review & Scientific Names HW10 Find your scientific names

Oct 23 Intro to Resume Project select biologist

Oct 26 Resume Project all sources due

Oct 27 Resume Project

Oct 28 Resume Project

Oct 29 Resume Project All Note Cards due

Oct 30 Resume Project

Nov 2 Required Care for zoo organisms

Nov 3 Humans in the Biosphere resume due (PR1) & interviews tomorrow

Nov 4 Interviews

Nov 5 Endangered Species, biodiversity HW1 finish lists

Nov 6 Endangered Species Brochure

Nov 9 Endangered Species Brochure Brochures due (PR2)

Nov 10 CONFERENCES

Nov 11 CONFERENCES

Nov 12 Zoo Map/Zoo operation be ready for Zoo presentation

Nov 13 Zoo Presentation Day (PR3)

Nov 16 Microscopes 1

Nov 17 Microscopes 2 HW2 read p169-170, do WB #1-7, p73

Nov 18 Pond Water 1 HW3 read p170-173, do WB #8-11, p73-74

Nov 19 Pond Water 2 HW4 read p174-177, do WB #1-13, p75-76

Nov 20 Pond Water 3

Nov 23 Parts of the Cell HW5 read p177-181, do WB #14-34, p77-79

Nov 24 Cell Structure and Function Notes start thinking about Cell Models

Nov 25-27 THANKSGIVING

Nov 30 review, Cell Posters HW6 materials for Cell Models

Dec 1 Cell Model PR4 Cell Models Due tomorrow

Dec 2 Cell Analogy (writing)

Dec 3 MVO

Dec 4 MVO (Q1)

Dec 7 exam review

Dec 8 exam review

Dec 9 STUDY DAY

Dec 10 EXAMS

Dec 11 EXAMS

Dec 14-17 EXAMS

Dec 18 – Jan 3 WINTER BREAK

Jan 4 Go over the exam Dissection Contract

Jan 5 Diffusion & Passive Transport HW7 read p694-697, do WB #1-13, p237-238

Jan 6 Osmosis

Jan 7 Active Transport

Jan 8 begin Dissection discussion HW8 read, highlight, and prepare for lab

Jan 11 Earthworm external dissection (lab3) HW9 read part C, highlight, and prepare for lab

Jan 12 Earthworm internal dissection HW10 read part B of frog, highlight, & prepare for lab

Jan 13 Frog external dissection HW11 read part C of frog, highlight, & prepare for lab

Jan 14 Frog internal dissection study for quiz

Jan 15 Transport **Quiz 2** finish all drawings, observations, analysis, conclusion

Jan 18 MLK

Jan 19 PROFESSIONAL DEVELOPMENT

Jan 20 Photosynthesis & Respiration

Jan 21 Photosynthesis 2

Jan 22 Respiration & Energy use

Jan 25 Gregor Mendel & Genetics HW1 make eye color family tree

Jan 26 Punnet Squares HW2 find your family’s genotype based on phenotype

Jan 27 Punnet Squares & Dihybrid cross *no homework night*

Jan 28 Chlorophyll spectrum & Exercise Lab1 HW3 read p230-232, do WB p102 #27-34

Jan 29 Fermentation Lab2

Feb 1 Photosynthesis/Respiration Compare/Contrast study for quiz

Feb 2 Review and **Quiz** on Photo/Resp

Feb 3 Cell Size activity

Feb 4 Mitosis Videos

Feb 5 Mitosis Microscopes

Feb 8 Mitosis Posters finish posters (PR1)

Feb 9 Stem Cells *brochure (Q2)*

Feb 10 Meiosis Videos HW4 p281 – Mitosis Cards
Feb 11 Meiosis vs. Mitosis

Feb 12 *work book chapter 11 – Karyotype?*

Feb 15 PRESIDENTS DAY

Feb 16 WINTER BREAK

Feb 17 Genetic Code

Feb 18 New Genetic Being Finish your creature (Q3)

Feb 19 DNA extraction, fingerprinting

Feb 22 DNA Structure 1

Feb 23 DNA Models 1

Feb 24 DNA Models 2 (PR2) *no homework night*

Feb 25 DNA Replication game

Feb 26 Transcription & Translation Lab due

Mar 1 *Mutations & Genetic Engineering* *Jr College Tour*

Mar 2 *GM Foods debate* *Jr College Tour*

Mar 3 *Mutations,* practice test HW5 p330 #3: letters about GM crops; study

Mar 4 DNA Review game study

Mar 5 **Test** on genetics

Mar 8 Evolution introduction – variation HW6 read 15-1, do WB p125-126

Mar 9 Voyage of the Beagle

Mar 10 Ideas that Influenced Darwin

Mar 11 videos

Mar 12 M&M Speciation Lab 4

Mar 15 Survival Game

Mar 16 Spoon Finch Lab 5

Mar 17 Extinction Posters 1

Mar 18 Extinction Posters 2 finish poster PR3

Mar 19 Evidence for Evolution

Mar 22 Camouflage & Mimicry

Mar 23 Video, Evolution Jeopardy

Mar 24 Burgess Shale Research HW7 Bring in model materials

Mar 25 Burgess Shale Models finish models PR4

Mar 26 Video – great discoveries *order nutrient Agar for April 29*

Mar 27-Apr 5 SPRING BREAK

Apr 5 EASTER MONDAY

Apr 6 Geologic Time Periods start on Mesozoic flyer

Apr 7 Mesozoic Period Fliers finish flyer PR1

Apr 8 Test Review study for test

Apr 9 Evolution **Test**

Apr 12 Design a Grocery Story

Apr 13 CONFERENCES

Apr 14 CONFERENCES

Apr 15 Classification Day 1 HW1 read p447-450, do p450 #1-5

Apr 16 Classification of familiar animals

Apr 19 Creepy Critters 1

Apr 20 Creepy Critters 2 finish lab

Apr 21 Dichotomous Key HW2 ?

Apr 22 Classification, 6 Kingdoms start on PPT

Apr 23 *work on ppt*

Apr 26 Wild Creatures Lab

Apr 27 Kingdoms PowerPoints

Apr 28 Show Kingdoms PPt, begin bacteria

Apr 29 Bacteria Growth Lab Kingdom PowerPoints Due

Apr 30 *ERBs - Seniors Last Day*

May 3 Bacteria videos

May 4 Immune System Game

May 5 Tuberculosis Experiments HW3 readp495-503 (20-1, 20-2), do WB

May 6 Protists HW4 ?

May 7 Protists & Pond Water 1

May 10 Protists & Pond Water 2 study protists & bacteria
May 11 **Quiz** on Protists & Bacteria

May 12 Plants *no homework night*

May 13 Plant Hunt

May 14 Intro to Animal Project start on PowerPoint

May 17 Animal Phyla

May 18 Animal PowerPoints

May 19 Animal PowerPoints

May 20 Animal PowerPoints finish PowerPoint (PR)

May 21 Presentations

May 24 complete Animal Phyla

May 25 review for exam

May 26 STUDY DAY

May 27 EXAMS

May 28 EXAMS

May 30 MEMORIAL DAY

June 1 EXAMS

June 2 EXAMS

June 3 EXAMS

June 4 COMMENCEMENT