

Life Science Grade 7 Holt Science and Technology

Approximately 2 weeks per chapter Data Sheet (DS) / Science Skills Work Sheet (SSW)
Math Skills Worksheet (MSW)

DO ALL *What Do You Think?* Then **revise** in each Chapter Review: *Now What Do You Think?*

Scientific Method= (SM)

Look at “homework” sections in Teacher’s Addition (TE)(at the bottom of the page) to assign
Use the “Quizzes” in the TE (in the margins) after each section, to check for understanding...

Life Science...

Chapter 1 Read and discuss pp. 4-33
 What Do You Think? & Investigate p.5
 Quick Lab p. 20
 Do Explore p.23, do MSW 27 & 30
 Graphing Data p. 562, DS #2 (if possible)-after page 20
 A Winter to a Hidden World p. 563, DS #3 & SSW #24-after p. 27
 Do Chapter Review pp.30-31
 Take Test ditto

It’s Alive...

Chapter 2 Read and Discuss pp. 34-51
 What Do You Think? & Investigate p.35
 After p. 37, do MSW #4, 25 & 26-Scientific Notation
 Roly Poly Races p. 564, DS #4 & SSW #10, after p. 38
 Do Explore p. 39
 The Best-Baked Brand Bakery Dilemma p. 566, DS # 5 & SSW #22, after p. 44
 Do Chapter Review pp.48-49
 Take Test ditto

Light & Living Things

Chapter 3 Read and Discuss pp. 52-75
 Do What Do You Think? & Investigate, p. 53 (if possible, diffraction grating)
 Quick Lab p. 61
 Do Apply p.63
 Mixing Colors p. 568, DS #6 after p. 64 (filters, red, green & blue)
 Chapter Review pp. 72-73
 Take Test ditto

Cells...

- Chapter 4 Read and Discuss pp.76-105
 What Do You Think? & Investigate p. 79 (if possible-microscope & slide)
 Quick Lab, p. 90)
 Name That Part! P. 523, DS #9, after p. 96
 Chapter Review pp.102-103
 Take Test ditto

The Cell In Action

- Chapter 5 Read and Discuss pp. 106-125
 What Do You Think? & Investigate p. 107 (if possible-large & small test tubes)
 Quick Lab p.108
 The Perfect Taters Mystery p. 524, DS #10 & SSW #13, after p. 110
 Stayin' Alive p. 576, DS #11, after p. 121
 Chapter Review pp. 122-123
 Take Test ditto

Heredity

- Chapter 6 Read and Discuss pp. 126-149
 What Do You Think? & Investigate p. 129 (a parent needs to prepare this first)
 Quick Lab, p. 136
 Bug Builders p. 578, DS #12 (a parent must prepare alleles), after p. 134
 Apply p. 137
 Quick Lab p. 142
 Tracing Traits p. 580, DS #13, after p. 146
 Chapter Review pp.146-147
 Take Test ditto

Genes...

- Chapter 7 Read and Discuss pp. 150-173
 What Do You Think? & Investigate p.151
 Base-Pair Basics p. 582, DS #14, after p. 158
 Quick Lab, p. 163
 Chapter Review pp.170-171
 Take Test ditto

Evolution of Living Things

- Chapter 8 Read and Discuss pp. 174-199
 What Do You Think? & Investigate p175
 Do Homework p. 179 in TE “Research the Horse”
 Explore the website on the “Galapagos Islands” p. 184 in the TE
 Quick Lab p. 187
 Apply p. 189
 Out of Sight Marshmallows (SM), p. 586 DS #16
 Survival of the Chocolates (SM), p. 587, DS #17
 Chapter Review pp.196-197
 Take Test ditto

History of Life...

- Chapter 9 Read and Discuss pp. 200-225
 What Do You Think? & Investigate -p. 201
 The Half-life of Penny p. 591, DS #19
 Chapter Review pp.222-223
 Take Test ditto

Classification

- Chapter 10 Read and Discuss pp. 226-245
 What Do You Think? & Investigate p.227
 Explore p. 229
 Quick Lab, p. 231
 Voyage of the USS Adventure p. 594, DS #21
 Shape Island p. 592, DS #20
 Chapter Review pp.242-243
 Take Test ditto

Plants

- Chapter 11 Read and Discuss pp. 246-277
 What Do You Think? & Investigate p. 249
 Explore p. 251
 Math Break p. 253
 Leaf Me Alone p. 596, SSW #2, after p. 269
 Build a Flower p. 599, DS #24, after p. 270
 Chapter Review pp.274-275
 Take Test ditto

Plant Processes

- Chapter 12 Read and Discuss pp. 278-299
What Do You Think? & Investigate p. 279
Quick Lab p. 282 (for petri dishes use 2 bowls)
Quick Lab p. 288
Apply p. 290
Weepy Weeds p. 602 DS #26 & SSW #27 (use 2 similar jars or vases with the same amount of water in them, instead of test tubes)
Chapter Review pp.296-297
Take Test ditto

Animals & Behavior

- Chapter 13 Read and Discuss pp.302-323
What Do You Think? & Investigate p. 302
After p. 305 do SSW #25
After p. 310 do Aunt Flossie & the Bumblebee p606 / DS #28; SSW #13
Quick Lab p. 312
Apply p. 313
Wet, Wiggly Worms p 604 / DS #27
Chapter Review pp.320-321
Take Test ditto

Invertebrates

- Chapter 14 Read and Discuss pp. 324-353
What Do You Think? & Investigate p. 325
Porifa's Porosity p. 608 DS #29
The Cricket Caper p. 609 DS #30 (if possible-you need 2 live crickets from a pet store—such as *Buchies*)
Chapter Review pp.350-351
Take Test ditto

Fishes, Amphibians & Reptiles

- Chapter 15 Read and Discuss pp.354-379
What Do You Think? & Investigate p. 355
Explore p. 358
Quick Lab, p. 363
Apply p. 367
Floating Pipe Fish p. 612 DS #31 / SSW #1
Chapter Review pp.376-377
Take Test ditto

Birds & Mammals

- Chapter 16 Read and Discuss pp.380-411
What Do You Think? & Investigate p. 381
Quick Lab p. 386
Explore p. 395
Apply p. 400
No Lab
Chapter Review pp.408-409
Take Test ditto

The Earth's Ecosystems

- Chapter 17 Read and Discuss pp. 412-437
What Do You Think? & Investigate p. 415
Too Much of a Good Thing? p620 (if possible—you need a microscope, slides & pond water or possibly aquarium water?—check out from room 31)
Chapter Review pp.434-435
Take Test ditto

Environmental Problems/Solutions

- Chapter 18 Read and Discuss pp. 438-459
What Do You Think? & Investigate p. 439
View the website on p. 443
Explore p. 445
Apply p. 446
Quick Lab, p. 452
Biodiversity - What a Disturbing Thought p.622 DS #38 / SSW #19
Chapter Review pp.456-457
Take Test ditto

Body Organization...

- Chapter 19 Read and Discuss pp. 460-485
What Do You Think? & Investigate p. 463
Explore p. 467
Quick Lab, p. 469 (*you need any one chicken bone)
Quick Lab, p. 473
After p. 473 - Muscles at Work p. 626 DS #40
After p. 478 – Seeing is Believing p. 627 DS #41
Chapter Review pp.482-483
Take Test ditto

Circulation & Respiration

- Chapter 20 Read and Discuss pp. 486-507
What Do You Think? & Investigate p. 487
Apply p. 494
Quick Lab, p. 501
Build a Lung p. 630 DS #42
Carbon Dioxide Breath p. 631 DS #43 (*need phenol red indicator solution or bromothymol blue, room 31*)
Chapter Review pp.504-505
Take Test ditto

Communication & Control

- Chapter 21 Read and Discuss pp. 508-531
What Do You Think? & Investigate p. 509
Explore p. 513
Quick Lab, p. 516
After p. 517 – You’ve Gotta Lotta Nerve! p. 632 DS #44 / SSW #11
Quick Lab, p. 520
Apply p. 523
Chapter Review pp.528-529
Take Test ditto

Reproduction & Development

- Chapter 22 Read and Discuss pp. 532-553
What Do You Think? & Investigate p. 533
Apply p. 540
After p. 545 – It’s a Comfy, Safe World! P. 634 DS #45
Red Hot or Not? -p. 592 / DS #52
My How You’ve Grown p. 635 DS #46
Chapter Review pp.550-551
Take Test ditto