**Winchester STARBASE  
Science Additional Lessons  
Grade 5**

**5.1 Scientific Investigation, Reasoning, & Logic**

* Ball Bounce Lab
* Bubble Gum Physics
* Bubble Time Folder
* Dehydrating Food
* Penny Lab
* Sponge Bob Controls & Variables 1
* Sponge Bob Controls & Variables 2
* Sticky Tape Experiment
* Variables Practice Key
* Variables Practice
* What’s Hidden Inside Folder

**5.2, 5.3 Force, Motion, & Energy**

* Bending Light
* Cool Suits Folder
* Discover Earthquake Resistant Structures
* Discover Foil Activity
* Discover Keep a Cube
* Discover Safe Landing
* Discover Tennis Anyone
* Discover Windy City Tower
* Reflection Light with Mirrors
* Sound Vibrations
* Visualizing the Vestibular System

**5.4 Matter**

* Atoms Family Folder <https://www.youtube.com/watch?v=TWyW9MYrMVQ>
* Messing with Mixtures Folder
* Meet the Elements

<https://www.youtube.com/watch?v=iVDY0xdALs4> (You Tube link for “Meet the Elements” song)

* Classifying Matter PPT

**5.5 Living Systems**

* Invertebrate Classification Challenge Folder
* Vertebrate Classification Challenge Folder
* Building a Cell
* Incredible Edible Cell
* Kingdoms on the Farm
* Lab – Determining the Characteristics of Living Things

**5.6 Interrelationships in Earth and Space Systems**

* Coasts to Currents
* Eggs-Speriment
* Lost on the Moon
* Oil Floats, Right?
* Play-doh Planets
* Puzzle of the Plates and Oobleck
* The Ocean Floor

**5.7 Earth Patterns, Cycles, and Change**

* Blue Marble Matches Folder
* Rock Cycle Journey Folder
* A Rock is Born Poster
* Candy Bar Tectonics
* Do Rocks Absorb
* Lava Layering
* Plate Tectonics
* Reaping Rocks
* Rock Cycle Activity

**Activities/Projects/Websites**

* Science online activities and apps

**Winchester STARBASE**

**Math Additional Lessons  
Grade 5**

**5.1, 5.2, 5.3 Number & Number Sense**

* Fishing for Fraction Decimals
* Fractions and Decimals out to dry
* Order Up

**5.4, 5.5, 5.6, 5.7 Computation & Estimation**

* Party Time
* 36 Bingo Computations Game
* Equivalent Fractions Game Directions
* Equivalent Fractions Missing Numerator Game
* Fractions, Decimal, Percent Task Cards
* Multiplying Domino Fractions Directions
* Multiplying Domino Fractions Template
* Roll & Make Whole Directions
* Roll & Make Whole Board Game

**5.8, 5.9, 5.10, 5.11, 5.12, 5.13, 5.14 Measurement & Geometry**

* Island Conquer Area & Perimeter
* Measure for Measure – Lengths & Heights
* Metric Measurement
* Metric Mania Folder
* Gummy Bear lab
* Exploring Math-Geometry
* Anglefinder
* All Cracked Up
* Shapes with Chickpeas and Toothpicks
* Mass vs Weight mp4

**5.15, 5.16, 5.17 Probability & Statistics**

* M & M Graphs
* Mean, Median, Mode & Range
* Mean, Median, Mode, & Range Board Game
* Mean Median Mode Directions
* Mean Median Match-Up Directions
* Mean Median Match-Up Game

**5.18, 5.19 Patterns, Functions, & Algebra**

* Algebra Jeopardy
* Algebra
* Cross Number Pattern Puzzle
* Matching Sentences

**Activities/Projects/Websites**

* Menu Math Folder
* Math Online Activities & Apps
* Mathematical Profile cards

Go to PHET Interactive Simulations for elementary activities on numbers, number lines, fractions, ratios, and area: [Filter - PhET Interactive Simulations (colorado.edu)](https://phet.colorado.edu/en/simulations/filter?subjects=math&levels=elementary-school&type=html,prototype)