**Midterm Review Book:**

**Name: Date: Period:**

**Objective:**

By the end of the second quarter, students will create a review book that touches on all aspects of the curriculum thus far.

**Procedure:**

1. Get five sheets of computer paper and fold them in half together. Number your pages in the bottom outside corner. If done correctly, you should have 20 pages numbered.
2. Using the rubric below, fill in the information required. Everything should be handwritten and hand drawn. No printing. It might be a good idea to write on lined paper, cut it out, and paste it in if you handwriting is poor. Also probably a good idea on pictures.
3. Periodically, I will check in progress for homework points. The schedule will be seen below:
   1. Pages 1-5 Due by: Friday, January 9th (4A 1/9, 4B 1/12)
   2. Pages 6-12 Due by: Friday, January 16th (4A 1/15, 4B 1/16)
   3. Final Booklet Due on: By the start of the Mid-Term

**\**You can check in all parts early***

**Rubric/Page Setup**

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| Page | Content | Points |
| 1 | **Cover Page:**   * Name & Period * Quarter 1 Picture/Diagram * Quarter 2 Picture/Diagram | \_\_\_\_\_/3 pts |
| 2 | **Branches of Earth Science:** Define the following and provide descriptive picture of each   * Geology * Meteorology * Environmental Science * Astronomy | \_\_\_\_\_\_/3 pts |
| 3 | **Scientific Method:**   * List the steps and briefly give description of each * Include independent variable, dependent variable, and control | \_\_\_\_\_\_/3 pts |
| 4 | **Measurement:**   * Mass/volume/density – describe what each is, how each is measured, and formulas * Metric system prefixes and their relationship to each other | \_\_\_\_\_\_/3 pts |
| 5 | **Matter and Atomic Structure:**   * Choose any element and draw its atomic structure * Include an element key for that element and label/describe atomic number & atomic mass | \_\_\_\_\_\_/3 pts |
| 6 | **Atoms:**   * Diagram an atom * Label and define its parts * Isotopes – define and give example | \_\_\_\_\_\_/3 pts |
| 7 | **Minerals:**   * 4 things that define a mineral * Two basic divisions | \_\_\_\_\_\_/3 pts |
| 8 | **Mineral Identification:**   * Provide an illustration and caption for each: color, hardness, luster, texture, streak, cleavage/fracture, density | \_\_\_\_\_\_/3 pts |
| 9 | **Igneous Rocks:** Illustrate and caption   * Intrusive vs. extrusive * Large vs. small crystal size | \_\_\_\_\_\_/3 pts |
| 10 | **Metamorphic Rock:** Illustrate and caption   * How they are formed * Textures – foliated vs. non-foliated | \_\_\_\_\_\_/3 pts |
| 11 | **Sedimentary Rock:** Illustrate and caption   * Methods of sediment formation (weathering and erosion) * Deposition or sorting of particles | \_\_\_\_\_\_/3 pts |
| 12 | **The Rock Cycle:**   * Draw a diagram outlining the rock groups and the processes that create them | \_\_\_\_\_\_/3 pts |
| 13 | **Weathering and Erosion:** Illustrate and caption   * The two types of weathering * Examples of each, with one diagram for those two | \_\_\_\_\_\_/3 pts |
| 14 | **Continental Drift:** Include diagrams of   * Pangea * Sea floor spreading, convection currents, and where the youngest rocks are found * Magnetic reversals * Wegner’s evidence of continental drift | \_\_\_\_\_\_/3 pts |
| 15 | **Plate Tectonics:** Illustrate and label   * Three types of plate boundaries and what happens at each * Three types of convergent boundaries | \_\_\_\_\_\_/3 pts |
| 16 | **Relative Dating:** Illustrate and label   * What it is * Uniformitarianism, cross cutting relationships, unconformities, superposition, horizontality | \_\_\_\_\_\_\_/3 pts |
| 17 | **Absolute Dating:** Illustrate and label   * What it is * Half-life: what it is, a diagram, and a graph | \_\_\_\_\_\_/3 pts |
| 18 | **Fossils:** Provide examples of and illustrate   * What makes a good fossil * Index fossils | \_\_\_\_\_\_/3 pts |
| 19 | **Volcanoes:** Illustrate and label   * Volcano * How hot spots form volcanoes * How Oceanic/Continental boundaries form volcanoes | \_\_\_\_\_\_/3 pts |
| 20 | **Earthquakes:** Illustrate and label   * P, S, and L waves – fastest, slowest, destructive, 1st at seismic station * Diagram the three types of faults and label their parts and forces * Focus, epicenter, lag time | \_\_\_\_\_\_/3 pts |

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| Additional Requirements | Points |
| Final Draft: Pages and workmanship show final draft quality. No excessive eraser marks. | \_\_\_\_\_\_/5 pts |
| Writing: Handwriting is legible and shows good grammar. | \_\_\_\_\_\_/5 pts |
| Diagrams: Diagrams are labeled and show the concepts being discussed on the page | \_\_\_\_\_\_/5 pts |

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| ***Total Score:*** | ***\_\_\_\_\_\_/75 pts*** |