**Grade 8: Curriculum Comparison**

**Mathematics and Science\***

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| **Mathematics 8** | | |
| **WHAT’S BEEN REMOVED?** | **WHAT’S CHANGED?**  **(has been revised)** | **WHAT’S NEW?**  **(has been added)** |
| * Multiplying and dividing integers (moved to Grade 7) * One-step equations   (moved to Grade 6)   * Transformations   (moved to Grade 6, but no tessellations)   * Representing data   (moved to Grade 9) | * Emphasis on current content and real contexts to reflect student realities. * Focus on how ratios, rates, and percentages express a comparison between quantities. * All integer operations now in Grade 7. Meaning of operations with numbers extends to fractions in Grade 8. * All fraction operations in Grade 8, instead of just multiplying and dividing. * Emphasis on relationship between surface area and volume. * Emphasis on how determining averages is one way of making sense of large data sets. * Emphasis on relationship between experimental and theoretical probability for large data sets. * Focus on representing discrete linear relations in many connected ways. * Graphing linear relations extends to analysis of scale values and inclusion of larger integral numbers. * Financial literacy integrated throughout resource, but most prominently as an authentic application of proportional reasoning. | * Perfect cubes and cube roots   (was Grade 10)   * Adding and subtracting fractions (was Grade 7) * Measures of central tendency   (was Grade 7)   * Expressions, writing and evaluating using substitution   (was Grade 7)   * Financial literacy (best buys) * **Yukon First Nations ways of knowing and doing** are meaningfully and authentically integrated throughout this curriculum. * Focus on **curricular competencies**, including: reasoning and analyzing; understanding and solving; communicating and representing; and connecting and reflecting. * Focus on **core competencies.** |

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| **Science 8** | | |
| **WHAT’S BEEN REMOVED?** | **WHAT’S CHANGED?**  **(has been revised)** | **WHAT’S NEW?**  **(has been added)** |
| ***Biology***   * Reduced focus on the functioning cell, human body system, immune system   ***Chemistry***   * Fluids and Dynamics   ***Earth and Space Science***   * Water Systems on Earth | ***Biology***   * Focus on characteristics of life,   general introduction to the cell,  microorganisms and human  health  ***Chemistry***   * Kinetic molecular theory is now part of a true chemistry unit | ***Biology***   * Photosynthesis and cellular respiration * Microorganisms   ***Chemistry***   * Atomic theory   (was Grade 9)  ***Earth and Space Science***   * Earth’s Crust   (was Grade 7)   * Plate Tectonics   (was Grades 7 and 10)   * ***Yukon First Nations ways of knowing and doing*** are meaningfully and authentically integrated throughout this curriculum. * Focus on ***curricular competencies,*** including hands-on scientific inquiry and place-based science. * Focus on ***core competencies.*** |