**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.***
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