**Grade 9: Curriculum Comparison**

**Mathematics and Science\***

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| **Mathematics 9** | | |
| **WHAT’S BEEN REMOVED?** | **WHAT’S CHANGED?**  **(has been revised)** | **WHAT’S NEW?**  **(has been added)** |
| * Perfect squares and square roots (moved to Grade 8) * Pattern generalizations using equations   (moved to Grade 8)   * Verification using substitution (moved to Grade 8) * Single variable linear inequalities * Circle Geometry   (moved to Grade 12 Geometry or Apprenticeship)   * Surface area of composite 3D objects * Line and rotation symmetry   (moved to Grade 6) | * Emphasis on current content and real contexts to reflect student realities. * Similar shapes have proportional comparisons between their attributes. * Focus on how proportional reasoning enables us to make sense of multiplicative relationships. * Meaning of operations with numbers extends from integers and fractions to rational numbers. * Shift to linear relationships involving rational numbers. * Focus moves from discrete linear relationships to continuous linear relationships and how they can be represented in many ways. * Financial literacy integrated throughout resource, but most prominently with detailed addition of banking and budgeting. | * Representing data   (was Grade 8)   * Financial literacy (banking and budgeting) * **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 9** | | |
| **WHAT’S BEEN REMOVED?** | **WHAT’S CHANGED?**  **(has been revised)** | **WHAT’S NEW?**  **(has been added)** |
| ***Chemistry***   * Atomic Theory   (to Grade 8)  ***Physics***   * Static Electricity * Power Consumption   ***Earth and Space Science***   * Space Exploration   (some to Grade 6) | ***Biology***   * Reproduction is now in terms of its biological significance and its importance and impact to our lives - socially, environmentally, and economically.   ***Chemistry***   * The focus is now on the periodic table and properties of elements. | ***Biology***   * Human sexual reproduction   ***Earth and Space Science***   * Interconnectedness, Sustainability of Systems (was Grade 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.*** |