**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.***
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