

## Building on Foundational Skills Extension Task 1

*This is a personal extension task. In other words, while there are overarching guidelines, how you approach this task is entirely up to you.*

*Please be sure that your understanding and application skills for the following foundational skills are rock-solid before you do this extension task:*

- *Addition and subtraction, multi-digit, with and without decimals*
- *Multiplication and division, multi-digit*
- *Factors and multiples, including number lines, factor rainbows, prime and composite numbers*

### **Your Challenge:**

1. Identify a “big topic” that is of interest to you. It can be anything, but try and explore something that is “out of your norm.”
2. Formulate/ specify what you want to investigate. For example, if your “big topic” is “Space,” you might specify: Investigate and compare sizes and distances in space.
3. Form at least 3-5 main guiding questions to aid you in your investigations. For example: What are the distances between each planet and the sun as well as neighbouring planets?
4. Formulate sub-questions for each main guiding question, if applicable. For example: How do the specific distances of each planet from the sun affect its temperature, atmosphere and surface conditions?
5. Use/ Incorporate mathematical expressions to help you in your investigations. Challenge yourself, here!
6. Represent and share your investigation. Have fun with this!