Using the Grades 4 – 8 Science Skills Tracking Excel File

I am hoping the Excel file will be helpful in your assessment, both formative and summative, of science skill and knowledge outcomes. So this works for you as efficiently as possible, please refer to this user guide. The use of this Excel file is not a requirement (like the tracking in math in K-3), use it as you please. As always, email me, peter.macdonald3@nbed.nb.ca, with any questions or feedback.

Important: Each tab (see below) is set to print for letter sized paper should you want blank copies to use about the classroom. It is highly recommended to backup these, and similar files, regularly to more than one location.

Tabs: The tracking file is broken down into tabs for each outcome and knowledge unit. There is also a tab to summarize a student's overall progress (Student Summary) and a tab that contains all the skills assessment rubrics for reporting purposes (Skill Rubric Summaries).

Student Summary PP1 PP2 PP3 PP4 PP5 AE1 AE2 AE3 AE4 Habitats Rocks, Minerals, Erosion Skills Rubric Summaries

To start, refer to the PP1 tab.

Student Names: Each skills outcome tab looks like this. The "Student01, etc." are place holders for your students. Enter your student names over these. There are a total of 29 students possible.

- > Important: Every other tab will populate the student list from what you type here.
- Important: The auto-population of Excel tabs is problematic if you make changes to the student roster on PP1 after you have entered scores in any tab. Refer to the two options below.

School, Year	Fo	ormati	ve As	sessment Grade 3		e Skills				Teache
PP1: Propose scientific questi	ions									
4 = Excelling		3 = Got It				2 = Al	1 = Need Help			
Testable question that includes what is measured/observed as well as tested	Scientific question that includes the variable to test				n has a yes/r cate what sho	Any other answer				
Student Name	Scores			Final		Observ	ation [Dates		
Student01					#N/A					
Student02					#N/A					
Student03					#N/A					
Student04					#N/A					
Student05					#N/A					
Student06					#N/A					
Student07					#N/A					
Student08					#N/A					
Student09					#N/A					
Student10					#N/A					

 If you input data and have kept the auto-population feature, do not sort students by name if there are roster changes. Add new students to the bottom of PP1 and keep that order. Delete *the information* in the cells of students no longer in your class (do not delete rows, columns, or cells).

• Or, enter your class roster in PP1 and then copy and paste that in to every other tab, this will remove the auto-population feature. Delete (*the information only*) or add students as necessary but you need to do this carefully to every tab, however, the roster and data within each tab can now be selected and sorted alphabetically.

Scores: Using the rubric as a guide, score your student on the skills, from left to right, as the year progresses. You many only enter a score of 1, 2, 3, 3+, 4, or 4+ (each cell is a dropdown list of those numbers if you find that easier).

Important: The rubric models that of report card assessments, but if you wanted to change that you would need to change the data validation of the cells (found under the Data tab on the top of the excel file).

Final: This column contains a formula to display the last number in the row. This assumes a progression of learning the skill, but that certainly is not always the case. If you don't agree with the value that displays in the "Final" column simply make the last entry in the "Score" cell the value you want or type the value in the "Final" cell and overwrite the formula. Do not worry if/when you see "#N/A", the formula in the cell is looking for a numerical value and can't find one. That will change once you've entered a score (even if you don't, it will not effect the workings of the Excel file).

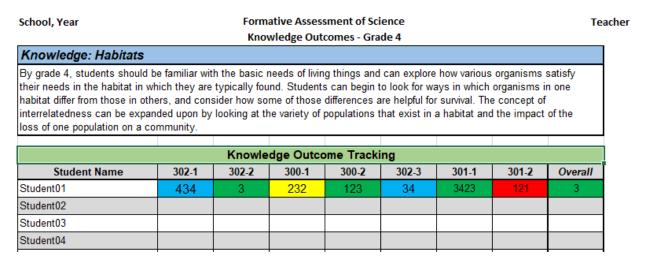
Observation Dates: A space for your own use should you want to keep a record of formative assessment or activity dates. Excel will likely auto format the cell to represent the dates you enter.

ASD-N Science Dec. 2017

Skill Tracking using Excel: User Guide

Peter MacDonald

Knowledge Outcome Tabs: A similar idea to the skills tabs, however, there is not an Excel tab for each outcome. Every time you add data for a student, for a particular outcome, you add the number to what you entered before. Each number in a cell (screen shot below) is a separate assessment of an outcome. The cell's colour is determined by the last digit entered within the cell to help guide you to problem areas. The description of the outcome is not here, so please refer to the curriculum guide. There is not a formula to determine an overall score, as it is just an option for you to use.



Student Summary Tab: In this tab you can select a specific student and view their overall progress. I'm hoping this would be helpful for reporting periods or conferences with parents, teachers, principals, etc.

School, Ye	ar		Grade 4 Science Outcome Assessment Summary									Teac		
Student	01		4 = Exce	Meeting Ou	omes, 1 :	, 1 = Working Below, 0 = No Data								
				ormative /	Assessmen		∙y of All Ski							
Skill			Scores			Final	Skill Assessment Strands							
PP1	0	0	0	0	0	#N/A	Plan & Perform (PP) - Ask questions, make predictions about							
PP2	0	0	0	0	0	#N/A	objects and events and develop fair tests to investigate those							
PP3	0	0	0	0	0	#N/A	questions. Observe and investigate their environment and							
PP4	0	0	0	0	0	#N/A	record the results							
PP5	0	0	0	0	0	#N/A	1							
AE1	0	0	0	0	0	#N/A	Analyze & Explain (AE) - Interpret findings from investigations							
AE2	0	0	0	0	0	#N/A	using appropriate methods. Work collaboratively to carry out							
AE3	0	0	0	0	0	#N/A	science-related activities, and communicate ideas, procedures							
AE4	0	0	0	0	0	#N/A	and results.							
			Form	artive Ass	essment Su	ummary o	f All Know	ledge Out	comes					
Habitats	302-1	302-2	300-1	300-2	302-3	301-1	301-2	Overall						
	0	0	0	0	0	0	0	0						
Rocks,	300-6	300-5	300-8	301-6	301-5	301-4	300-7	301-7	Overall					
Minerals, & Erosion	0	0	0	0	0	0	0	0	0					

Where it says "Student01" above is a dropdown list of all the students you placed in the PP1 tab. The formula in each cell searches each tab for information pertaining to that specific student. For your reference, this tab also displays (not shown above, but it is in the Excel file) a description of each skill outcome. Everything here will fall apart if you change the structure within the tabs, so again, avoid deleting rows, columns and cells (deleting information within a cell will not cause any problems).

Important: If a score of "0" appears, that just means the reference cell contains no data, it is not an actual score of zero. The cells in the "Final" column may show and error message and "#N/A", that is because it is searching for a number and there has been nothing entered yet. This will not effect how the Excel sheet works.