I want to design a simulation interactive for my students.

Grade level: **Secondary 3**

Student readiness level: **Mixed Abilities**

The simulation is based on: **calculation of (i) Impairment loss on trade receivables (or Reversal of impairment loss on trade receivables), (ii) Trade receivables, (iii) Allowance for impairment of trade receivables and (iv) Net trade receivables**

The objective of the simulation is to: Understand how the variables **(i) amount confirmed uncollectible and (ii) percentage of trade receivables estimated uncollectible** affects the calculation of **(i) Impairment loss on trade receivables (or Reversal for impairment loss on trade receivables), (ii) Trade receivables, (iii) Allowance for impairment of trade receivables and (iv) Net trade receivables** will change when the variables

While using the simulation, students should experience: experimenting with different variables i.e. **(i) amount confirmed uncollectible and (ii) percentage of trade receivables estimated uncollectible**

The interface should include: drop down list for students to select the variable “Amount confirmed uncollectible” where values consist of $0, $100, $200, $300, $400, $500, $600 and $700; drop down list for students to select the variable “Percentage of trade receivables estimated uncollectible” where values consists of 1%, 2%, 3%, 4% and 5%.

The results panel should show 2 sections.

The title of the 1st section is “Statement of Financial Performance”, where the title of the sub-section is “Less: Other Expenses” and followed by “Impairment loss on trade receivables”.

The title of the 2nd section is “Statement of Financial Position” where the title of the sub-section is “Current Assets”, followed by “Trade receivables”, “Less: Allowance for impairment of trade receivables” and “Net trade receivables”.

Calculate the values for the results panel using the following logic:

Trade receivables = Given trade receivables minus amount confirmed uncollectible

Allowance for impairment of trade receivables = % x Trade receivables

Impairment loss on trade receivables = Allowance for impairment of trade receivables minus (Given Allowance for impairment of trade receivables minus amount confirmed uncollectible).

If the value for Impairment loss on trade receivables is a negative value, display “Reversal of impairment loss on trade receivables” instead of “Impairment loss on trade receivables”, and display the value in brackets.

Display “Reversal of impairment loss on trade receivables” in bold italics red fonts.

Provide the students with a checkbox whether they want to see the workings.

Display only numeric workings. Display the workings next to “Impairment loss on trade receivables”, “Trade receivables”, “Less: Allowance for impairment of trade receivables” and “Net trade receivables”.

Uncheck the checkbox automatically every time the student changes any one of the variables.

Given Trade receivables = $10000

Given Allowance for impairment of trade receivables = $500

Display “Given Trade receivables” and “Given Allowance for impairment of trade receivables” at the top of the screen.