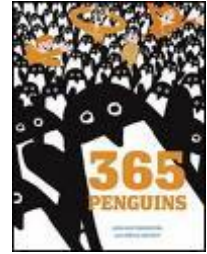


Book Title: 365 Penguins by Jean-Luc Fromenthal



Grade Levels: 3 - 6

Learning Outcomes:

Grade 3

A2: Represent and describe numbers to 1000 concretely, pictorially and symbolically.

B1: Demonstrate an understanding of increasing patterns by:

(a) describing (b) extending (c) comparing (d) creating patterns using manipulatives, diagrams, sound and actions (numbers to 1000).

A) Décrire b) continuer c) comparer d) créer

Grade4

A1: Represent and describe numbers to 10 000.

B3: Represent and describe patterns and relationships using charts and tables to solve problems.

Représente and décris les régularités et les liens en utilisant les affiches et les tableurs pour résoudre les problèmes.

Grade5

A1: Represent and describe whole numbers to 1 000 000.

B1: Determine the pattern rule to make predictions about subsequent elements (*with and without concrete materials*).

Représente et décris les nombres entiers jusqu'à 1 000 000.

Grade6

A2: Solve problems involving large numbers

B2: Represent and describe patterns and relationships using graphs and tables.

Résous les problèmes avec les grands nombres.

Représente et décris les régularités et la relation entre les graphiques et les tableaux.

Materials:

- Book: 365 Penguins by Jean-Luc Fromenthal
- Calculators
- Coloured tiles or Base 10 Blocks
- Problem sheets for students

Lesson Ideas:

1. Warm-up students for partitioning
 - Share learning intention, using the language: partitioning, equation, addend
 - Part/Part/Whole Cards to – money cards – record equations for each card
 $25 = \square + 10$ as an example
Partage l'objectif d'apprentissage en utilisant ce langage: la partition, l'équation, le cummulateur
Partie/partie/entier **Ecris les équations pour chaque carte**
2. With the children, discuss the cover of the book – predict about the title and explain to the children that they need to watch and listen for partitioning opportunities in the story.
Discute de la couverture du livre avec les étudiants – prédis le titre et explique aux enfants qu'ils doivent regarder et écouter attentivement pour découvrir le partitionnement dans l'histoire.
3. Stop at the point in the book ...'and number 60 on the next day. But there was a problem ... What should we do with all these penguins?'
Que devrait-on faire avec tous ces pingouins?
4. Pose the problem – If we were to assign the penguins to five different room, how many could be in each room? Debrief with this and record the options (encourage the explaining of strategies – the rooms do not have to have the same number of penguins. **Si on devait assigner les pingouins dans cinq chambres (pièces) différentes, combien en aurait-il dans chaque chambre?**
5. Teacher record the partitions (equation, # of addends etc.)
6. Students to work on '365 Penguins – Partitioning Sheet'
7. Pull together at the end – note strategies, Ah has and self assess on the language introduced, comfort with partitioning, solving the problems as presented.
8. Time permitting – continue reading the book.

Extensions: Children could create their own partitioning problems.