Insight.
Understanding.
Heart.

Curriculum and ideas for the innovative classroom.

Number Sense Routine Workshop Description: Intermediate

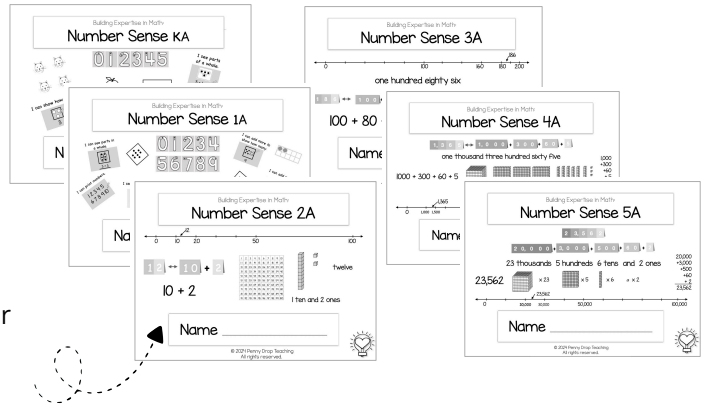
Join us for an introduction to Penny Drop Teaching's Number Sense Routine. The routine is a short daily practice that builds strong number sense skills in your students.

Our work is based on the latest research in fostering growth mindsets and mathematics education. We draw from the work of Jo Boaler, Christina Tondevold, John A. Van de Walle, Dylan Wiliam, First Steps in Math, and others. We are classroom teachers and have developed materials that make it easy to implement current research into your classroom.

The booklets are designed to help students work independently at their "just-right" level. Clearly levelled booklets, with increasing levels of difficulty, make differentiation simple. Common learning intentions allow students to work in different booklets while focusing on the same concepts. Students build understanding and confidence by working with numbers they can make sense of.

The booklets are aligned with the BC Curriculum. The skills and concepts covered are:

- reading, writing, and saying numbers
- ordering numbers
- giving the value for a digit
- using expanded form
- counting on and counting back
- giving real-life examples
- using number paths and number lines
- drawing to represent or show the value of a number
- creating equations



Skills are developed across the booklets so that students have ongoing practice and can gain mastery of these skills. The booklets use icons and graphics to guide students and help them understand tasks, which enables them to work independently at the "just-right" level—even in a diverse intermediate class!

In this workshop, you will learn how to use this routine in your intermediate classroom. Explore the booklets, discover how to find each student's "just-right" level, and see how purposeful formative feedback can make a difference. We will also share with you the teachers' guide, summative assessments, sample answers, slides, and tracking documents—everything you need to build a daily practice that supports mathematical understanding and student success.

Participants will leave with a clear understanding of the number sense routine and practical strategies for incorporating it into their intermediate mathematics program.

Alison Walkley and Heidi Jungwirth