

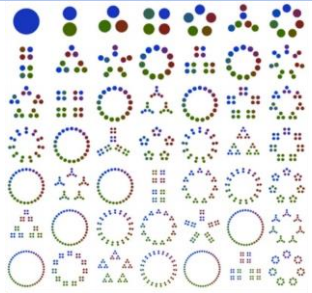


Math Counts 7-12

Issue 20 • March 2024

K-12 Program Team

Math Conversation: High Impact Instructional Practices: Small Group Instruction



Looking at the image: What do you notice? What do you wonder? How could this show factoring? Prime numbers? Composite numbers? Check out [here](#) for a larger image and animated factorization diagram.

[Small group instruction](#) is a powerful teaching practice that targets the learning needs of specific students at specific times. By working with small and [flexible](#) groups, whether they are homogenous or heterogenous, the educator can personalize conversations and address key concepts that need to be clarified, provide intervention or extend thinking to stretch student thinking forward.

Math Manipulative: Good Resource to Explore: NCTM

[Tinkercad](#) is a versatile tool that combines 3D design, electronic simulations and community collaboration, making it accessible for both beginners and experienced makers. Students can use the web-based 3D design and simulation platform to create, design and develop projects that focus on Circuits, Coding, and Engineering. Students can bring their imagination to life.



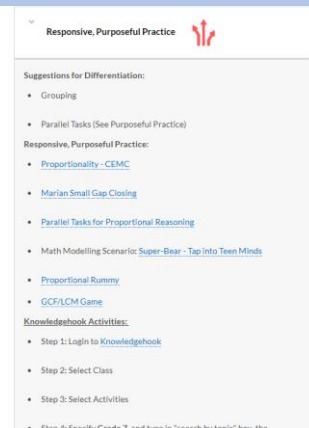
AUTODESK®
TINKERCAD®



Are you looking for fun and interactive ways to celebrate Pi Day in your classroom? Take a look at [NCTM](#) for ways to celebrate on March 14 with your students.

Math Long Range Plans: Proportionality Mathematical Modelling:

What are the rest of your students doing during small group instruction time? The [Math Long Range Plans DRB](#) offers many practice ideas in Responsive, Purposeful Practice including Knowledgehook connections.



PEOPLE WHO LOOK AT THE SAME MODELING PROBLEM MAY HAVE DIFFERENT PERSPECTIVES INTO ITS RESOLUTION AND CAN CERTAINLY COME UP WITH DIFFERENT, VALID ALTERNATIVE SOLUTIONS.

The process of mathematical modelling is a connected and iterative process used in real world situations, enabling students to incorporate knowledge from other strands. It allows students to answer questions that are important to them. Check out this sample Mathematical Modelling Task, [West Brant New School](#) or [Caledonia New School](#).

Image Source: [Math Modeling](#)