



# KCS RTI<sup>2</sup> Math Intervention

## Middle School Menu

KCS recommends the use of Individualized Learning Plans (ILPs) as the instructional framework for middle school math intervention. Research indicates that students’ struggles in mathematics are often attributed to a lack of conceptual understanding of number sense. District provided common intervention assessments allow teachers to diagnose specific student deficiencies. ILPs provide a framework for the proper instructional support to address skill deficits using a variety of resources. All Skills Progressions and ILP resources are located on the KCS Mathematics Secondary Intervention Canvas course. Self-enroll in the Canvas course at the following link: <https://knoxschools.instructure.com/enroll/MNXCDW>

Resource	Type	Considerations	Descriptions
<b>Moving with Math</b> (Grades 6-8)	Print-based <u>Focus:</u> Number Sense, Fluency, and Mathematical Reasoning	Supplemental instructional resource <i>Previously purchased materials located at each school</i>	Moving with Math includes support for direct instruction & hands-on lessons through easy-to-use, lightly scripted lesson plans. Every lesson is introduced with a manipulative activity to develop understanding of essential math concepts followed by a picture on the student page, connecting the concrete to the abstract stage of learning including strategies for learning basic facts and daily reviews.
<b>Ready Math</b>	Printable resources <u>Focus:</u> Number Sense, Fluency, and Mathematical Reasoning	Supplemental instructional resource <i>Aligned printable resources in Canvas</i>	Additional instruction and practice is available through downloadable lessons to help meet individual student or small group needs.
<b>Building Fact Fluency</b>	Math Resource Kit <u>Focus:</u> Basic Math Fluency	Supplemental instructional resource <i>Previously purchased materials located at each school</i>	Toolkit that develops deep conceptual understanding and procedural fluency

<b>Arrive Math Games Kit</b>	Math Game Kit <u>Focus:</u> Fluency Practice	Supplemental instructional resource <i>Previously purchased materials located at each school</i>	Game kit offers hands-on collaborative game play that provides ongoing fluency practice and opportunities for mathematical discourse.
<b>Khan Academy</b>	Computer-based <u>Focus:</u> Instructional videos and Skills-based practice	Supplemental instructional resource <i>Free digital resource ILP alignment in Canvas</i>	Khan Academy provides personalized learning, trusted content, and tools to empower teachers, enabling them to identify gaps in understanding, tailor instruction, and meet the needs of every student.
<b>Freckle</b>	Computer-based <u>Focus:</u> Adaptive Practice	Supplement instructional resource <i>Free teacher accounts or Premium school-based accounts available for purchase</i>	Self-paced practice that continually adapts as students progress.
<b>XtraMath</b>	Computer-based <u>Focus:</u> Math Fact Fluency	Supplement instructional resource <i>Free teacher accounts or Premium licenses available for purchase</i>	Practice that helps students improve math fact fluency.

This menu represents a list of district-vetted programs to support Tier 2 and Tier 3 mathematics intervention instruction. The majority of the intervention should be direct instruction using the framework for ILPs. Supplemental instructional resources may be used at the discretion of the intervention teacher to meet the unique needs of students. Anyone wishing to share resources to be vetted for use with ILPs may send the information to the KCS Math RTI<sup>2</sup> Facilitator ([kalie.bearden@knoxschools.org](mailto:kalie.bearden@knoxschools.org)).