

The Todo Math Theory of Learning

While Todo Math contains over 20 different games, a common theory of learning runs through them all. This theory of learning includes the following core principles:

1) Universal Design for Learning

We utilize the Universal Design for Learning (UDL) framework as the theoretical underpinning for this project. UDL provides proactive scaffolds to curricula for students with diverse needs.

Todo Math also includes a number of Accessibility Options.

2) Close alignment with the [Common Core State Standards for Mathematics](#).

Each Todo Math game and mission was created to align with one or more of the Common Core State Standards for Mathematics. See the Todo Math [Curriculum](#) page if you would like to know which specific standards are addressed in each Todo Math mission.

3) Multiple visual representations and virtual manipulatives.

The Common Core Standards for Mathematics as well as the National Council of Teachers of Mathematics's (2000) [Principles and Standards for School Mathematics](#) emphasize the importance of integrating visual representations and manipulatives into mathematics instruction. We intentionally included a variety of visual representations and virtual manipulatives in the Todo Math learning activities to ensure students develop a deep understanding of the mathematics concepts they are learning.

4) Differentiation

In the summer of 2015, Todo Math will add differentiated daily practice to its existing features. More details about this exciting new feature are coming soon!

5) Customizability

Todo Math stands apart from other math apps for the volume and range of content included. The system generates differentiated daily practice activities for individual students, but other [features](#) of the system, such as Free Choice Mode and Mission Mode, give teachers the ability to customize the Todo Math learning experience for the students in their classes. These features also allow students to repeatedly engage with the learning activities that they think are the most enjoyable.