http://teacher.scholastic.com/products/math180/about.htm

***MATH 180*** is a **revolutionary new math intervention program** designed to address the needs of struggling students in grades 6 + and their teachers equally. Its groundbreaking instructional design uses **adaptive software** to provide students with personalized instruction and practice, while equipping teachers with an **ecosystem of support**.

Three principles have been engineered into *MATH 180* to transform math instruction so that struggling students believe in the possibility of success, and their teachers have cutting-edge tools to accelerate them to the rigors of the Common Core for math.

## Effort Leads to **Success**

### Growth Mindset

Attitude drives learning. And as we have seen, many struggling students have given up on math. This is the hallmark of a fixed mindset. Working with Carol Dweck's Mindset Works organization, *MATH 180* creates a new **growth mindset** by showing students that their efforts lead to success. Adaptive technology is a key partner in changing this attitude. While diagnosing student gaps and delivering a "just right" dosage of instruction and practice, *MATH 180* builds student confidence and ensures mastery of newly learned skills and concepts

## The Key to **Unlocking Higher Mathematics**

### The Core Within the Core

For middle-school students who are two or more years behind in math, time is not on their side. Reteaching every missed skill and concept simply isn't possible. That's why *MATH 180* focuses on deep understanding and mastery of the Core Within the Core—the essential skills and concepts necessary to unlock algebra and advanced mathematics. Carefully curated by Common Core architects, the *MATH 180* scope and sequence is built around a focused and coherent curriculum that enables students to progress toward grade-level curriculum.

## Dramatically Increase **Your Impact**

### Force Multiplier for Teaching

We know that teachers are the key force behind effective math instruction. A "force multiplier" dramatically increases—or multiplies— effectiveness. Yet, for most school districts, teacher preparedness has become a critical issue. *MATH 180*'s state-of-the-art Teaching Ecosystem scaffolds less experienced teachers and provides a wealth of sophisticated supports to veteran math teachers. Guided by Dr. Deborah Ball, the country's most respected voice in teacher education in mathematics, *MATH 180* helps teachers become the force multiplier by surrounding them with the tools, resources, and professional learning they need to be greater at what they do best.

**Instructional Model**

Teacher-directed instruction focuses on developing mathematical reasoning, communication, and problem solving while the technology-based activities focus on highly adaptive, individualized instruction and practice.

*For over a decade, Scholastic has set the standard for using adaptive technology to close the gap for struggling learners. Our experience serving over a million students in 40,000 classrooms across the country has taught us that the majority of struggling readers are also struggling mathematics students. This insight has driven a five-year-long research and development effort culminating in the summer 2013 release of MATH 180.*

**Schools in Utah who have purchased Math 180 for the 2013 school year are:**

1. **Provo School District:**
   **280 West 940 North Provo, UT 84604**
   **Centennial Middle School**
   **Dixon Middle School**

2. **Davinci Academy:**
   **2033 Grant Avenue Ogden, UT 84401**

***Referenced below are a few components used in Math 180. These examples shows components of the data included in the suite of choices used to help educators clarify data and provide powerful personalized plans to drive student success.***

## FORCE MULTIPLIER FOR TEACHING—TEACHER ECOSYSTEM

*MATH 180* empowers teachers to be force multipliers, as they are the key drivers in developing communication skills, eliciting student thinking, and building reasoning.

- **Scholastic Central**—By leveraging the power of technology, Scholastic Central provides anytime, anywhere digital access to smart data, powerful tools for differentiated instruction, and resources that are comprehensive, cohesive, and convenient.
- **Teaching Guide**—*MATH 180* provides a rich set of teaching tools that lead teachers through the whole instructional sequence. First the teacher models a worked example, then students are gradually released to work in pair & independently.
- **Professional Learning & Coaching**—A full suite of learning resources are embedded in teacher materials. The professional learning space highlights the reasoning behind the *MATH 180* strategy, unpacks the Common Core progressions, and allows teachers to practice using the mTools—interactive visual models, games, and more.

- **Scholastic Math Inventory (universal screener)—**outcome-based universal screener and growth monitor that can be used as a trajectory-setting tool, forecasting tool and progress monitoring tool.
- ***Both sites also currently have Scholastic Math Inventory, awarded highest rating by the National Center on Response to Intervention, to monitor their students' math readiness for math instruction.**

- ***mSkills* (curriculum-embedded)**—ongoing formative assessment and progress monitoring

- **Math Reasoning Inventory**—teacher interview and online formative assessment tool designed to reveal the strategies students use to reason with whole numbers, decimals, and fractions

- **MindSet Assessment**—Assesses the shift in students' attitudes towards math and their own mathematical abilities.

**Data Analytics**

Scholastic's team of experts will partner with your district to collect, analyze, and report data during regularly scheduled leadership meetings. In addition, a mid-year and end-of-year Evaluation Report will be presented to provide:

- An analysis and evaluation of program implementation and student achievement
- A report on classroom observations and teacher progress
- Useful data for short- and long-range planning for teachers, classrooms, schools, and the district

# System Requirements

## Hosted Deployment

*iRead* and *MATH 180* use a hosted deployment. A Scholastic data center houses the *iRead* and *MATH 180* server software. Student and teacher workstations connect to this server using an SSL connection. Schools and districts do not need to purchase or maintain local servers. However, for many districts, Scholastic recommends that media be installed on a local district server inside the district firewall using the Scholastic Media Accelerator program. This will reduce network congestion.

## Mobile Access

*iRead* and *MATH 180* teachers and leaders can access their dashboards on iPads. Scholastic is in development of an iPad student client (release date to be announced).

### Workstation Requirements

| | |
|---|---|
| **Browser** | Internet Explorer 8.x or later<br>Safari 4.x or later<br>Firefox 15.x or later |
| **Operating System** | Mac OS X 10.6.8 through 10.8.x Windows XP SP3<br>Windows 7 Professional<br>Windows 8 (Windows 8RT not supported) |
| **Memory** | 512 MB to 1 GB of RAM, based on OS version |
| **Network** | Network Interface Card supporting TCP/IP (wireless networks supported, but performance may be limited by bandwidth capacity) |
| **Processor** | Intel Dual-Core or later<br>(PPC Macintosh computers not supported) |
| **Screen** | 1024 x 768 resolution |
| **Plug-ins** | Flash 11.4 or later<br>Adobe Reader, or Acrobat 9 or later, on teacher workstations |
| **Other** | Headphones required (microphone optional) on student workstations |

## Scholastic Media Accelerator (SMA)

Scholastic **strongly recommends** installing the Scholastic Media Accelerator (SMA) when using Scholastic Hosting Services. The SMA is a software application used to set up a specialized media server within a district to deliver the rich media assets (audio, video, and animation). The SMA improves overall performance by moving large files closer to the end user, thereby reducing bandwidth contention with the many other programs using the district's Internet connection. The SMA software can be installed on a Mac OS X-, Windows-, or Linux-based computer. Please contact Scholastic Technical Services if you need to discuss your specific implementation needs.

## Bandwidth

Scholastic recommends 100 kbps of available bandwidth per active workstation to operate its programs successfully.


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**Math 180 Website:**

Please go to: http://teacher.scholastic.com/products/math180/

> go to tab About MATH 180

> choose Program Components

>Then click on Personalized Learning

Within this section, there are a number (5) of videos that demonstrate the student experience that will illustrate to the board members the technology elements of MATH180.