

UDL Curriculum Development Project: Description of Materials Purchased

Math manipulatives – This is a collection of manipulatives that provide a concrete representation of math concepts including fractions, decimals, degrees in a circle and base ten numbers. Manipulatives support objectives at all elementary grade levels. Each kit includes:

- Weighted numbers (6 sets)
- Angle Viewer 360 (25)
- Clearview Base Ten Blocks (2 sets)
- Elapsed Time Line (2 teacher and 25 student rulers)
- Fraction Rings (6 sets of 6)
- Fraction Pattern Blocks (double helix and chevron - 2 sets of 70)
- Fraction Pattern Blocks (1/4 and 1/12 blocks - 2 sets)
- Geared Mini Clocks (25)

Materials were provided by Nasco, Inc. and came in a large plastic tote.

- Schools are provided with one math kit per approximately 64 students.
- A plan should be devised to provide all teachers with equitable access to these kits for instruction.
- Teachers can expect to see these materials referenced in the curriculum supports posted on the EIC.

Boardmaker Plus upgrade for all TM 08 schools – By upgrading the Tech Mod 08 schools to Boardmaker Plus, all schools will be using the same version of Boardmaker by the start of school in 2011. Boardmaker Plus has a number of advantages over Boardmaker 5, especially for students with low-incidence disabilities. This upgrade will make the version of Boardmaker consistent across all elementary schools, allowing curriculum materials to be shared among schools.

- One license is provided to each SCB, LFI, Learning Center, Autism, PEP class as well as one for the speech and language program at each school.
- CDs must be in the CD-Rom drive for the software to run. CDs will be distributed by Speri Silverman to media specialists.

Online Subscription Products:

Online books and research products provide a multi-modal method of reading for students. Text is read aloud, or students can read independently. It makes books and research available and accessible for repeated readings and independent practice. These products include natural voice for reading, full graphics and sometimes video and music as well. Unlike Bookshare and Accessible Book Collection, no special text reader is required and *there are no eligibility requirements for students to use these products*.

1. **PebbleGo Earth and Space** –The Earth and Space subscription compliments the new elementary science and information literacy curricula and is highly regarded by teachers and school library media specialists.
 - The subscription will last for 4 years from July 1, 2011 through June 30, 2015
 - Schools have access to this content through the current PebbleGo link in the Media Centers/Online Resources folder on every computer in our elementary schools.
 - Instructions for home use can be obtained from school media specialists.
 - Teachers can expect to see this resource referenced in the curriculum supports posted on the EIC.

2. **TumbleBooks Library** offers 193 English books with quizzes, 83 Spanish books, and lesson plans, worksheets and teacher's guides for grades K-5.
 - The subscription will last for 4 years from July 1, 2011 through June 30, 2015
 - Schools have access to this content through the *TumbleBooks Library* link in the Media Centers/Online Resources folder on every computer in Elementary and Middle Schools.
 - Home use is provided through a link on the school website.
3. **One More Story** offers 59 popular titles (eventually 108) for grades PreK-2.
 - The subscription will last for 4 years from July 1, 2011 through June 30, 2015.
 - Schools will have access to this content through the *One More Story* link in Media Centers/Online Resources folder on every computer in our elementary schools by the end of August 2011.
 - There is no home access to *One More Story*. It will only be available on computers in MCPS elementary schools.

Subscription to the Accessible Book Collection – Accessible Book Collection is a repository of digital books with pictures. Like Bookshare, once the school has a subscription, teachers may download an unlimited number of books in digital format *for children with print disabilities*. Accessible Book Collection has titles which are more appropriate for the elementary grades than those that Bookshare provides. Unlike Bookshare, the pictures are included, which are critical for comprehension of picture books. Finally, there are over 100 books in a switch accessible format which can be used by students with physical disabilities.

- The resource teacher or other designee for special education should serve as the primary contact for this subscription. The login and password may be further distributed to any staff member who will be downloading books on behalf of special education students.
- Teachers should see their school resource teacher for login information. They may also contact [HIAT](#).
- The subscription will last for 4 years from July 1, 2011 through June 30, 2015
- Accessible Book Collection is the only resource for obtaining switch accessible trade books for students with physical disabilities, and is of special interest to PEP-Beginnings and SCB classroom teachers.

Playaway audio books – Audio books provide an alternative to print and allow students reading below grade-level to access literature at their level of comprehension rather than their reading level. They could be used to provide an alternative to print for core books. The following titles will be provided to all elementary schools that serve grades 3-5: Secret Garden, Year of the Boar and Jackie Robinson, Number the Stars, The Double Life of Pocahontas, Shh! We're Writing the Constitution: And Other Stories about America's Beginnings.

- Playaways will be distributed to media specialists for cataloging in the fall.
- Playaways use standard AA batteries which will eventually need to be replaced.
- Sandburg Learning Center will be receiving a different set of titles.

ELMO document cameras with LCDs – Document cameras provide the ability to project any content, even material that is not digital, to the students. This can be annotated, manipulated, saved in digital format and incorporated into other learning artifacts. A document camera used together with a display device greatly expands the possibilities of making curriculum materials of any type more interactive and flexible. With the use of these funds, the intention is to make sure that each elementary school in MCPS has at least 4 ELMOs with an LCD for use in the building. Schools who have fewer than four ELMOs are being provided with enough ELMO/LCD sets to make four. Through use of this equipment, it is hoped that the school will find enough benefit toward differentiating instruction that more will be purchased using other funding sources.

- A replacement bulb for an LCD projector costs \$262 and will be the responsibility of the schools to replace.
- Mobile carts and computers are not figured into the price. Schools will need to use available carts or purchase their own. Schools have the option of adding a computer or laptop to the cart from available units in the building. Alternatively, schools can use the carts without a computer.
- Teachers can expect to see ideas for using ELMOs on the EIC.

More information on all of these resources is available on the HIAT website.

http://montgomeryschoolsmd.org/departments/hiat/tech_quick_guides/ARRA_tools.shtm