

**PROPOSAL TO PURCHASE SCIENCE MATERIAL for Elementary Grades K-5**

**Background Information:**

- Currently using *Science: A Closer Look* (Macmillan/McGraw-Hill, 2008)
- Next Generation Science Standards (NGSS) Science Standards were adopted in Illinois in February 2014
- Over the last three years, there has been some intra- and inter-district articulation to assist staff in understanding the scope and intention of the NGSS as well as align our curricula with the standards
- Nippersink Middle School Science adoption was in June 2017 (*McGraw-Hill Middle School Science*)

**Process:**

- Liz Mirra (Science Consultant) held a three day in-District workshop based on the need for teachers to understand the 3-Dimensional Learning expectations of the NGSS and the lesson development process based on the 5-E Instructional Model (Engage, Explore, Explain, Extend, Evaluate). Teachers in grades 4 and 5 were invited to attend.
- A Science Content Team was established with representatives from RGS and SGE as the core learning and decision-making team for selection of Science Program materials
- Meetings have been held throughout the year with Liz Mirra to educate the elementary Science Content Leaders to related to the expectations of the NGSS-embedded science classroom and effective materials to support that philosophy
- Science Content Team reviewed six programs and attended formal presentations for five programs

**Rationale:**

- Recommended by the elementary Science Content team following the program / materials reviews
- Need for consistency in delivery of content and rigor to all students across a course independent of the teacher
- Increased access to technology allows students to capitalize on the enhanced online anytime access to learning opportunities

**Program Components:** Six year License (includes technology and print resources)

- Exploring Science Student Bundles include technology and print text
- Exploring Science Through Literacy (8 copies each of a targeted readers, 144 total)
- Teacher Edition Online Subscriptions
- Recurring Costs:
  - Science Kit consumables replacements ( more cost effective to purchase outside of National Geographic)

**TOTAL COST:** \$ 88,683 for bundles plus \$33,300 for resource kits

- \$20,281 investment per year which equates to a \$33 per student expense
- \$33, 300 for resource kits is based on one resource kit for every two classrooms (the estimation includes some duplication for first and second grade kits, specific needs will be determined during the summer meetings)
- This cost was based on our enrollment projections for Grades K-5 for 2019-20

**Recommendation:** Adopt National Geographic Exploring Science for Grades K-5