

**Elementary Science Resource Adoption
Teacher Recommendation for 2017/2018**

Science Resource Adoption Process:

A team of science teachers consisting of one representative from each grade level at each school began preparation for the science resource adoption during the first week of November, 2016. The team began the work by analyzing the new science standards and identifying changes in content. A resource fair was held on November 10, 2016 at the Career Academy where teachers had the opportunity to review science materials and ask questions of vendors throughout the day as needed. After this initial exposure to various science vendors, teachers submitted a list of vendors they were interested in receiving additional information and reviewing further. On February 9, 2017, science teachers returned to meet with those vendors requested by teachers for a more detailed look at the possible resources. After the February 9th meeting, teachers were asked to redeliver key points from the resources and gain school level feedback and decisions as to what science resources they felt would best meet their instructional needs. Once feedback was received, it was clear that teachers needed additional time with vendors before making final decisions for their science resources. On March 31, the science resource vendors teachers had chosen came back to present a more in-depth look at their products for the team of teachers. Feedback was collected collaboratively for teachers to use back at their schools to ensure consistent feedback was being delivered to their peers. Teachers at each school reviewed the information and submitted grade level recommendations for science resources for their school by April 7, 2017. Since April 7, the Curriculum Office has been working with vendors to answer specific product questions and price quotes.

Teacher Recommendation:

Based on teacher recommendations, the requested science resource for elementary grades k-5 was Accelerate Learning's STEMscopes. The company provided teachers with access to a fully operational site where they had the opportunity to explore the product more fully during the adoption process. This comprehensive online K-12 science curriculum is aligned to support the GSE state standards. STEMscopes combines digital resources, supplemental print, and hands-on kits to fully engage students through the use of the inquiry-based 5E model (engage, explore, explain, elaborate, and evaluate) that is recommended by Georgia for science instruction. The online digital format will enable teachers and students to access the resources at any time, and is flexible enough to allow teachers to customize lessons, activities and assessments.

The company has committed to a partnership for the life of the adoption. They will provide initial training for free and will contract for training throughout the first year and on an as-needed basis for new employees during the remaining years. The company's curriculum writing team has stated any modifications they feel need to be made to the program during the adoption will be evaluated each year. Due to the the online format, necessary updates may be made from year to year seamlessly at no additional costs.

STEMscopes has three separate components, the digital platform, hands-on kits for experiments, and print bundles. Teacher feedback indicated a strong desire for the digital platform and hands-on kits. The print bundles are pdf versions of the digital content for teachers to print off as needed.

The following information outlines the costs analysis of the three components within STEMscopes.

STEMscopes Digital Pricing:

Digital materials provide an engaging and flexible platform for students and teachers. The resource includes notable 3rd-party partners who furnish embedded videos, simulations and interactive games. Science literacy, technical writing, Claim-Evidence-Reasoning (CER), Math connections, and Assessment item banks are some of the best features of this resources.

	# of Students	Price per Student	Total
K	845	\$5.95	\$ 4,723.55
1st	849	\$5.95	\$ 5,051.55
2nd	748	\$5.95	\$ 4,450.60
3rd	885	\$5.95	\$ 5,265.75
4th	915	\$5.95	\$ 5,444.25
5th	942	\$5.95	\$ 5,604.90
Annual Costs			\$ 30,540.60

Hands-on Kits and Consumable Kits:

Each grade level has separate Hands-on kits aligned to the content and standards specific for that grade level. There is a full kit and a consumable kit that will need to be purchased each year as material is consumed. These kits provide students with experiment opportunities to help foster hands-on learning and engagement.

We recommend purchasing one full kit per grade level to share and purchase consumable kits for each teacher.

	# of Teachers	Price Per Teacher	Total
K	52	8 @ \$590.00 44 @ \$120.00	\$4,720.00 \$5,280.00
1st	50	8 @ \$795.00 42 @ \$275.00	\$6,360.00 \$11,550.00
2nd	45	8 @ \$720.00 37 @ \$285.00	\$5,760.00 \$10,545.00
3rd	38	8 @ \$985.00 30 @ \$270.00	\$7,880.00 \$8,100.00
4th	30	8 @ \$1,535.00 22 @ \$345.00	\$12,280.00 \$7,590.00
5th	27	8 @ \$1,210.00 19 @ \$345.00	\$9,680.00 \$6,555.00
Year One Total			\$96,300.00
Year Two plus Total			\$62,740.00

Print Bundles:

Pdf versions of the digital content that teachers can use as journals and/or worksheets.

The company representative recommended only purchasing one set per teacher or one per 5 students to share to help reduce the cost.

	# of Students	Price per Student	Total
K - 3	3,327	\$14.95	\$49,738.50
4-5	1,857	\$18.95	\$35,190.15
Annual Costs			\$84,928.65

	# of Teachers	Price per Teacher	Total
K - 3	185	\$14.95	\$2,765.75
4-5	57	\$18.95	\$1,080.15
Annual Costs			\$3,845.90

Current Proposal:

Based on teacher recommendations, the Curriculum and Instruction office recommends the purchase of *STEMscopes* to support elementary science instruction with the following components:

1. Annual purchase of the digital platform
2. Yearly purchase of hands-on kit materials
3. Teacher copy of print bundles for year one only.

Year One Costs: \$130,686.50

Annual Continued Costs: \$93,280.60*

**Revisit the need for all kit materials after year one.*