PROGRAM DESCRIPTION

Department of Elementary and Secondary Education	**HB Section(s):** **2.055**
STEM Career Awareness	

Program is found in the following core budget(s): STEM Career Awareness

1a. What strategic priority does this program address?

Success-Ready Students & Workplace Development

1b. What does this program do?

In 2019, the legislature approved $250,000 for the purpose of creating a "STEM Career Awareness Program" to increase STEM career awareness among students in grades six through eight. The statewide program introduces students to a wide variety of STEM careers and technology through an online-based STEM curriculum. The program is supported by the "STEM Career Awareness Program Fund" and has been implemented since the 2019-2020 school year.

2a. Provide an activity measure(s) for the program.

Number of Online STEM and Computer Science Lessons Completed by Students						
FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
Projected	Actual	Projected	Actual	Projected	Projected	Projected
110,000	96,121	100,000	40,100	75,000	100,000	125,000

Data obtained from Thinking Media who is the vendor that provides the Learning Blade STEM curriculum

Note: Decrease in FY 2021 and FY 2022 actuals was due to COVID-19 impact and schools/teachers mostly focusing on core subjects and not on supplemental resources. The number of students reported to be engaged with offline activities is estimated at 13,000+ and those numbers are not reflected in these data.

Number of Schools that have Signed Up for Licenses (Cumulative)						
FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
Projected	Actual	Projected	Actual	Projected	Projected	Projected
450	149	350	342*	400**	425**	450**

Data obtained from Thinking Media who is the vendor that provides the Learning Blade STEM curriculum

Note: Decrease in FY 2021 actuals was due to COVID-19 impact and funds being restricted and not released until after January 1, 2021

* Includes schools that have connected via Clever. Some of these were done on a district-wide basis, even though not all schools in the district were the appropriate age range for this program.

**The number of new schools signing up in subsequent years will decrease as DESE nears saturation of target grade-level schools.

Department of Elementary and Secondary Education	**HB Section(s):** _____2.055_____
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2b. Provide a measure(s) of the program's quality.

STEM Career Awareness

STUDENT SURVEY RESULTS
Math is helpful when solving interesting problems - from 57% to 61%
What I learn in school will be useful later in my life - from 53% to 58%
I am interested in a career that uses science, engineering, math, or technology - 44%
I am interested in a career in computer science - from 17% to 18%

The percentage of students who agreed that after using Learning Blade:
I learned something about new careers - from 53% to 70%
I learned something about technology - 70%
I learned something about science - from 66% to 74%
I learned something about math - from 66% to 74%
I am more interested in a career in science, technology, engineering or math - from 39% to 53%
I am more interested in a career in computer science - from 25% to 26%

Data obtained from Learning Blade's Year End Report 2020 - 2021 and 2021-2022 Academic Year.

2c. Provide a measure(s) of the program's impact.

Number of Students Who Completed One or More Lessons in Learning Blade						
FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
Projected	Actual	Projected	Actual	Projected	Projected	Projected
3,500	2,951	3,000	1,245	3,000	3,000	3,000

Data obtained from Thinking Media who is the vendor that provides the Learning Blade STEM curriculum.
Note: Decrease in FY 2021 and FY 2022 actuals was due to COVID-19 impact.

Number of Hours of Total Time Spent Completing Online STEM Lessons						
FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
Projected	Actual	Projected	Actual	Projected	Projected	Projected
15,000	13,330	15,000	4,300	6,000	8,000	1,000

Data obtained from Thinking Media who is the vendor that provides the Learning Blade STEM curriculum.
Note: Decrease in FY 2021 and FY 2022 actuals was due to COVID-19 impact.

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Department of Elementary and Secondary Education   **HB Section(s):**   2.055
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Number of Educators Who Received Professional Development Regarding Program Delivery						
FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
Projected	Actual	Projected	Actual	Projected	Projected	Projected
150	131	150	90	125	15	150

Data obtained from Thinking Media who is the vendor that provides the Learning Blade STEM curriculum.

2d.   Provide a measure(s) of the program's efficiency.

Cost per Student Accessing Online Lessons						
FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
Projected	Actual	Projected	Actual	Projected	Projected	Projected
$25	$26	$25	$80	$30	$25	$25

Data obtained from Thinking Media who is the vendor that provides the Learning Blade STEM curriculum.

Percentage of Enrolled Students Who Completed at least One Lesson in Learning Blade						
FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
Projected	Actual	Projected	Actual	Projected	Projected	Projected
75%	76%	75%	59%	70%	70%	70%

Data obtained from Thinking Media who is the vendor that provides the Learning Blade STEM curriculum.
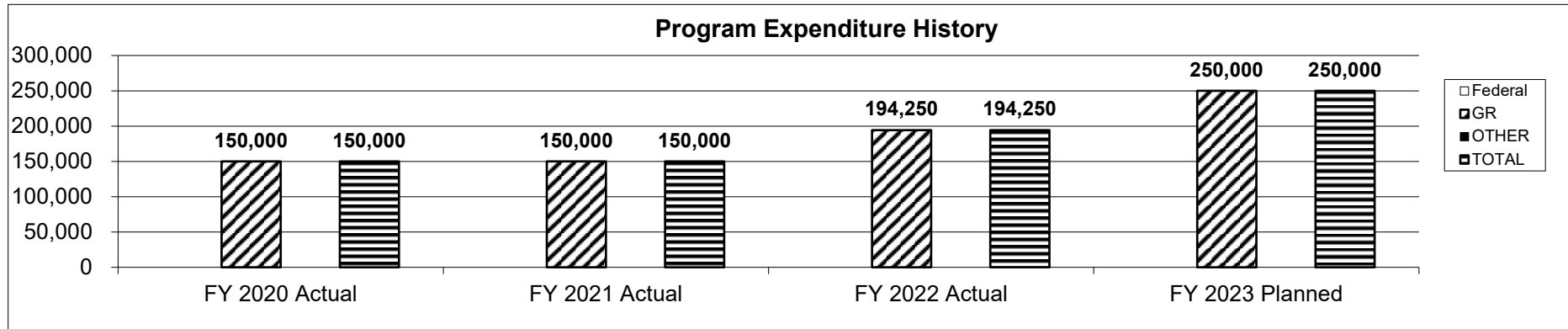
Department of Elementary and Secondary Education   HB Section(s):   2.055

STEM Career Awareness

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3.   Provide actual expenditures for the prior three fiscal years and planned expenditures for the current fiscal year. (Note: Amounts do not include fringe benefit costs.)

Program Expenditure History

Legend: □ Federal ■ GR ▤ OTHER ▧ TOTAL

	FY 2020 Actual	FY 2021 Actual	FY 2022 Actual	FY 2023 Planned
Values	150,000 150,000	150,000 150,000	194,250 194,250	250,000 250,000

4.   **What are the sources of the "Other " funds?**
0997 - 4907 STEM Career Awareness Fund

5.   **What is the authorization for this program, i.e., federal or state statute, etc.? (Include the federal program number, if applicable.)**
House Bill Section 2.050 and 2.055

6.   **Are there federal matching requirements? If yes, please explain.**
No

7.   **Is this a federally mandated program? If yes, please explain.**
No