



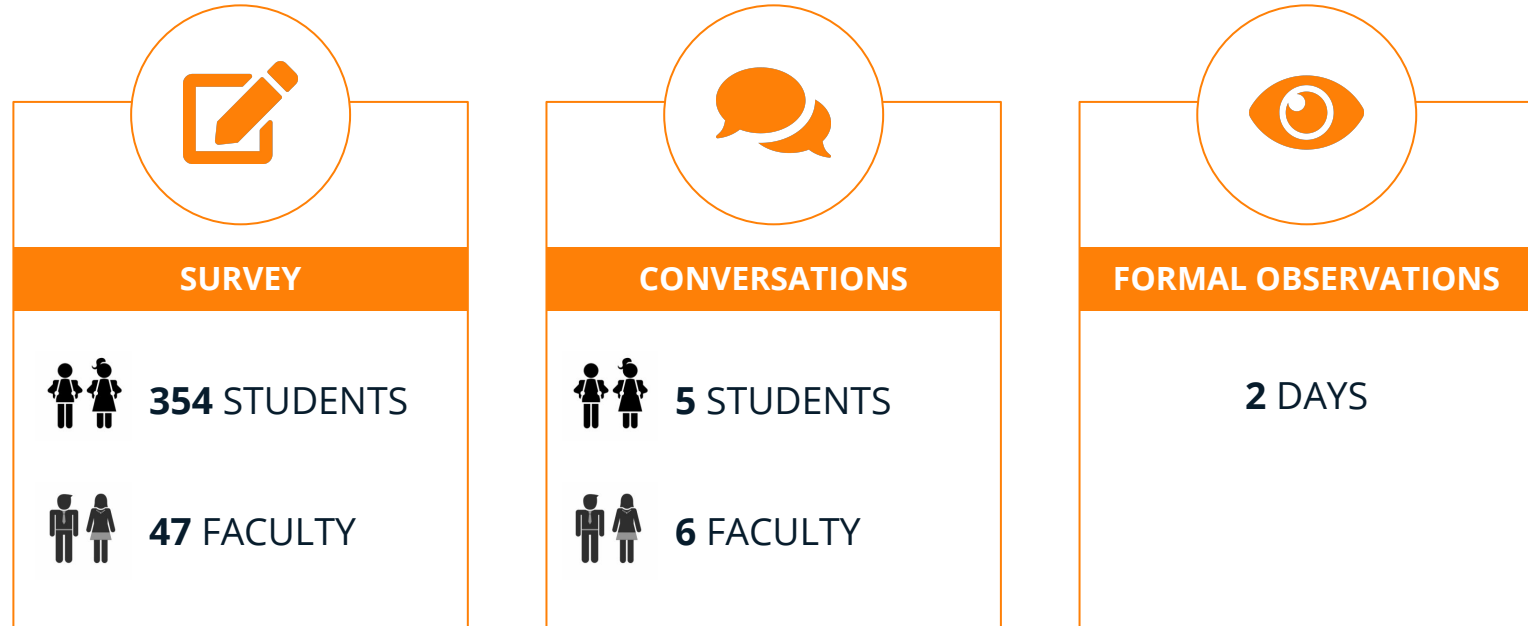
Research + Design Center

STUDENT ENGAGEMENT STUDY 2018

Beaver Country Day School x Harvard Graduate School of Education

DESIGN OF THE STUDY

To determine the impact of the Research + Design Center in year one, three graduate students from the Harvard Graduate School of Education spent time interviewing, observing, and surveying students and faculty.





THE R+D CENTER
IS A PLACE TO DEVISE, DESIGN, & EXPRESS THROUGH MAKING.

“I think it was built as a space for people to express their ideas through making and present them as a final product. I have definitely felt it is a relaxed space with a lot of options.”



THE R+D CENTER **PROVIDES SUPPORT & RESOURCES FOR PROJECTS**

“Inspires [students and teachers] to do better work and use the resources we have — outlets, computers, big open spaces, different things that a lot of schools don’t have — and encourage them to use them.”



THE R+D CENTER **PROMOTES COLLABORATION**

“Open space for everyone to collaborate and do what they like to do. There are so many spaces to work with other people. Beaver wanted us to come together more and come and use those resources.”

STUDENT ENGAGEMENT STUDY

STUDENTS' ANSWERS

HOW WOULD YOU ASSESS THE IMPACT OF PROJECTS YOU HAVE EXECUTED IN THE R+D?

95%

helped me
understand a
topic better.

Selected all that applied

HOW WOULD YOU ASSESS THE IMPACT OF PROJECTS YOU HAVE EXECUTED IN THE R+D?



Selected all that applied

WHICH IS A RELEVANT LESSON YOU LEARNED THANKS TO PROJECTS IN THE R+D



REAL WORLD SKILLS

- ▶ Bringing ideas to life
- ▶ Technical skills
- ▶ Real-life application

"I received orientation on how to bring my ideas to life."

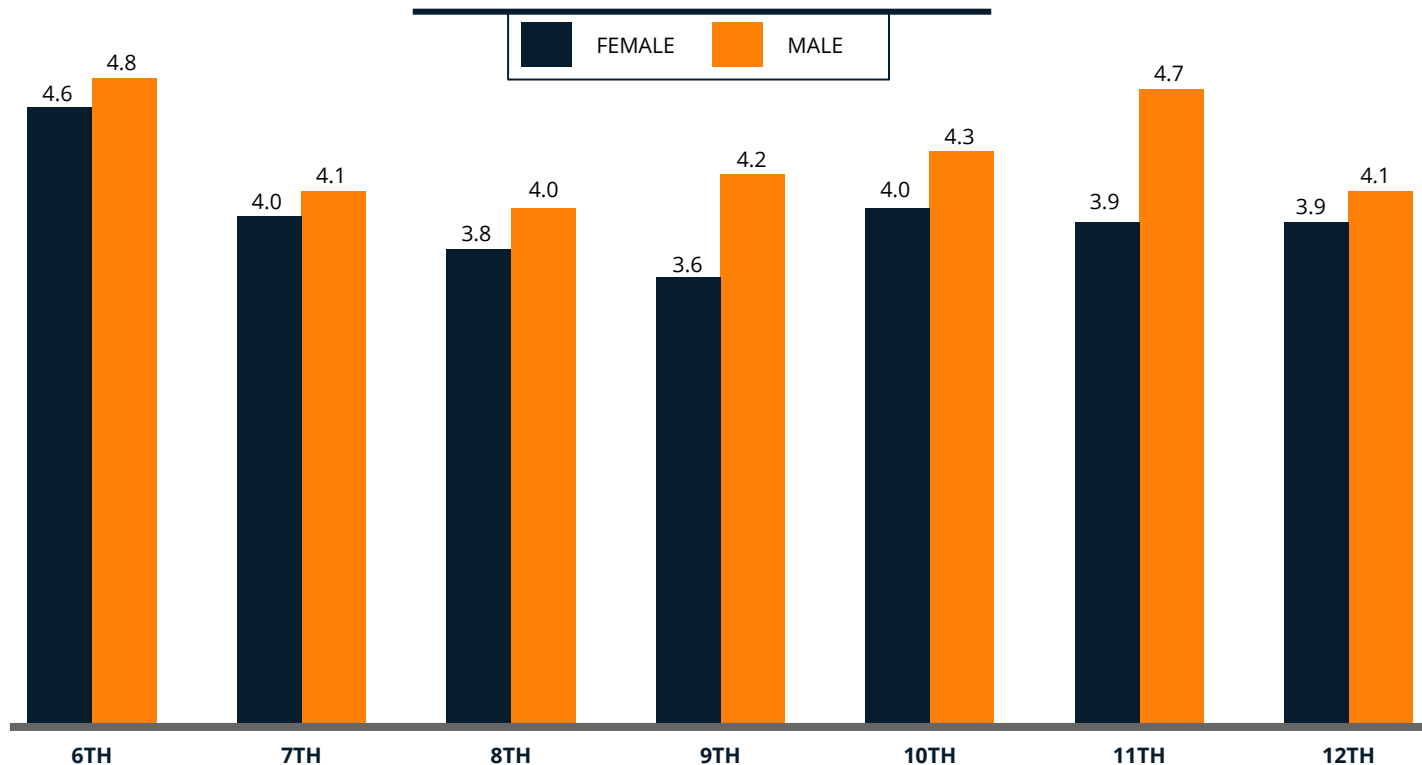


MOTIVATION

- ▶ Self-efficacy
- ▶ Resilience
- ▶ Self-knowledge

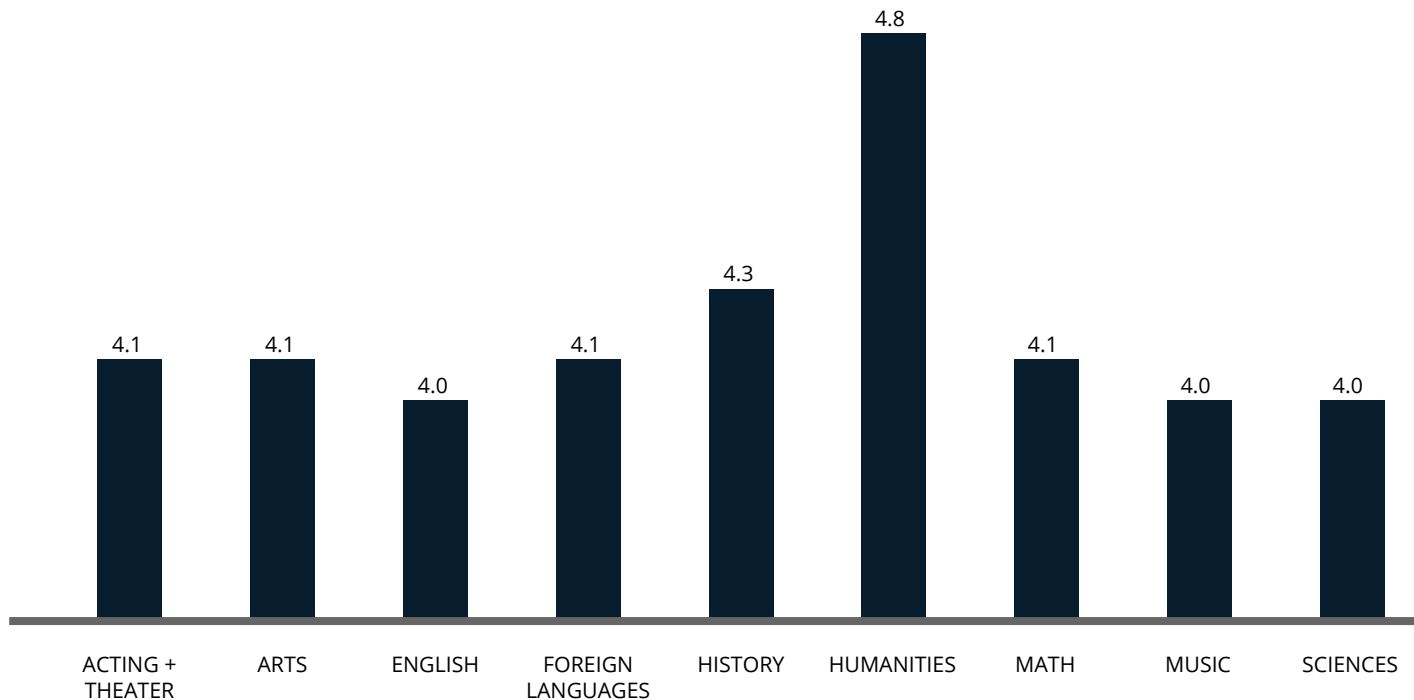
"The biggest thing I learned is to not doubt myself and to believe in myself and that I can do things."

F:M RATIO IN CONFIDENCE USING THE R+D



*Out of 5 // Selected all that applied

CONFIDENCE CORRELATION WITH FAVORITE SUBJECTS



*Out of 5 // Selected all that applied

STUDENT ENGAGEMENT STUDY

TEACHERS' ANSWERS



PURPOSE OF THE R+D CENTER

To empower and inspire students to make change through innovation by calling on the New Basics.

To provide the mindset and tools to integrate research, design, and technology into project-based learning.

To allow students a place to explore, experiment, and create to enhance their learning.

OVERVIEW OF EMOTIONAL REACTIONS



EXCITING
CHALLENGE

58%
27/47



PURE
EXCITEMENT

31%
14/47



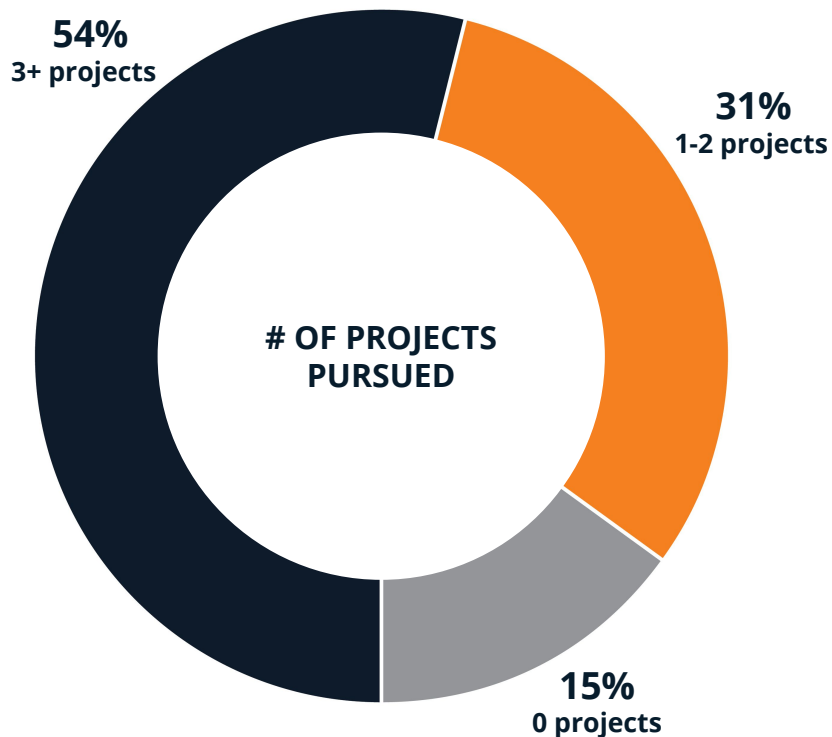
INDIFFERENCE

7%
3/47



ANXIETY/
CONCERN

4%
2/47



TEACHER CONFIDENCE LEVEL

49% VERY CONFIDENT (4-5)

38% CONFIDENT (3)

13% NOT CONFIDENT (1-2)

PERCEIVED STUDENT POSITIVE RESPONSE

37% 80-100% POSITIVE

23% 60-80% POSITIVE

17% 0-40% POSITIVE

23% N/A

REASONS TO PURSUE PROJECTS

58%
SKILLS

67%
UNDER-
STANDING

65%
MOTIVATION

63%
AGENCY

45%
INSTRUC-
TIONAL
DESIGN

*Selected all that applied