

Problem

- Numeracy is considered only for those “born with mathematical ability”
- Hinders innovation in U.S. curriculum

Solution

- Video game
- Incorporates JUMP Math’s confidence building curriculum
- Fun and interactive way of presenting JUMP Math concepts

Pre-Test and Survey

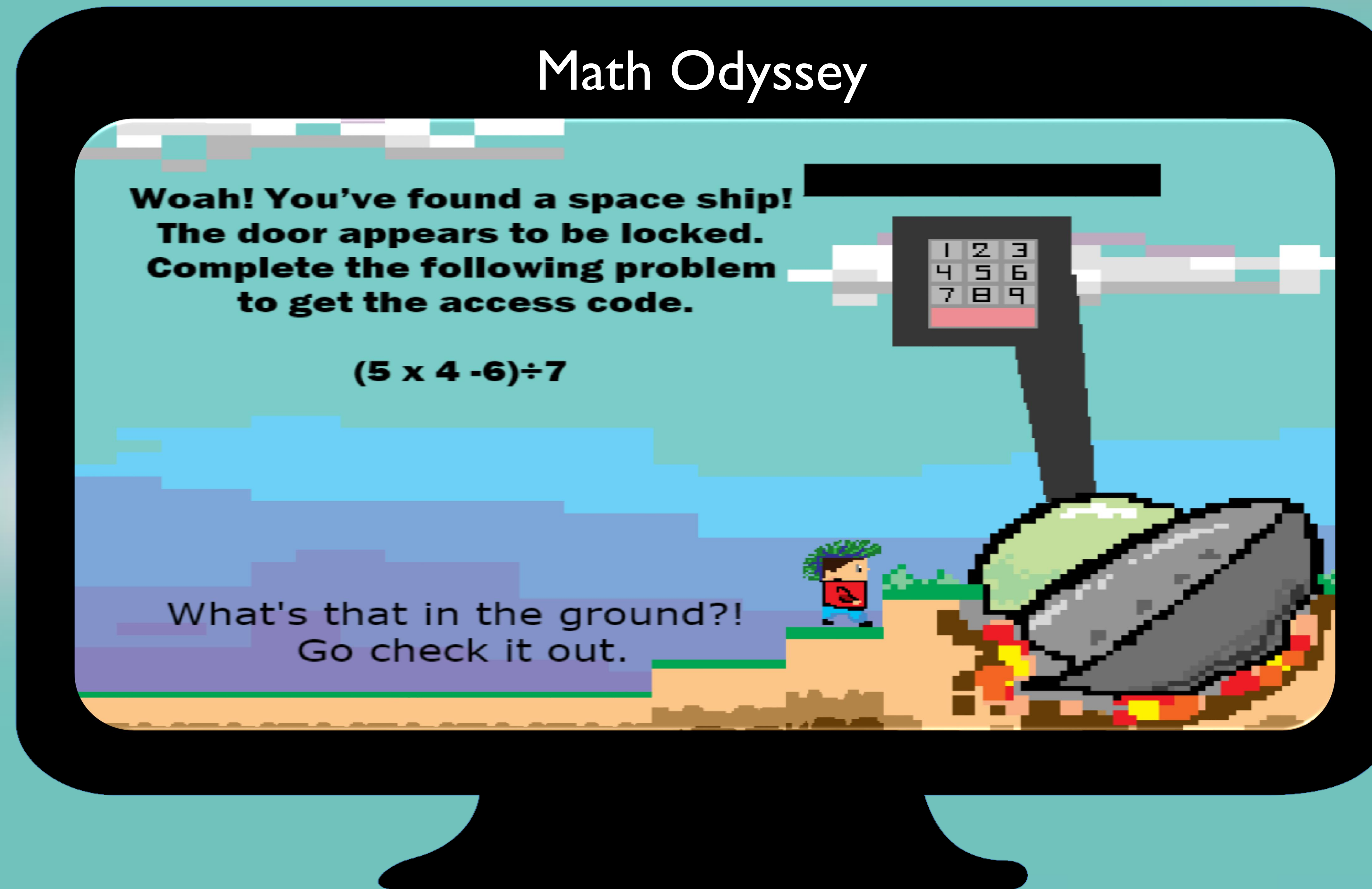
- 7 Math questions
- 7 Survey questions

Game: Math Odyssey

- 4 Major levels
- Learning based game play

Post-Test and Survey

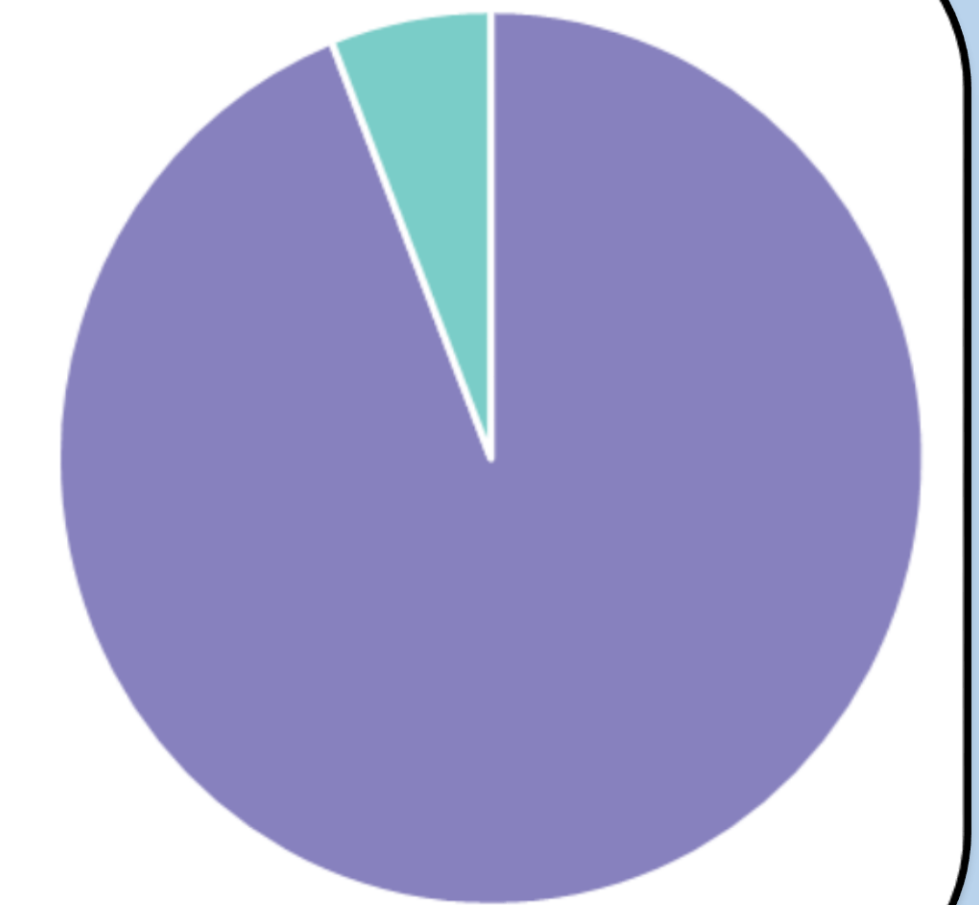
- 5 Math questions
- 11 Survey questions



Survey Data

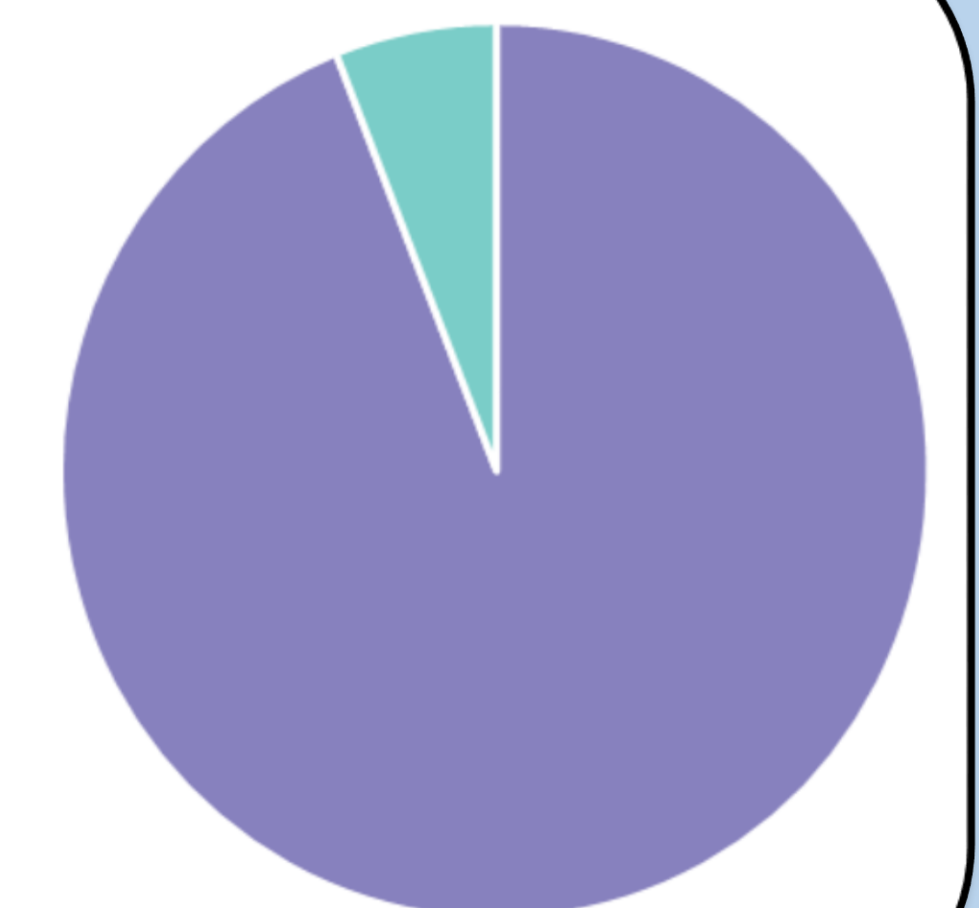
Pre-Survey:
Anyone can be good at math

- Agree
- Disagree



Post-Survey:
Anyone can be good at math

- Agree
- Disagree



Comparison of Average Pre and Post-Test Scores



Conclusion

- Data suggests improved numeracy skills
- Survey data suggests the game was fun and interactive

References

- “Is Innumeracy America’s Biggest Hidden Problem?” Self Lender, 18 Nov. 2016, www.selflender.com/blog/innumeracy-biggest-problem.html.
- de Aguilera, M. (2003). Video games and education: (education in the face of a “parallel school”).1(1)
- Franks, Martha L. "What Myths about Mathematics are Held and Conveyed by Teachers?" *The Arithmetic Teacher* 37.5 (1990): 10. *ProQuest*. Web. 28 Nov. 2017.