EXPLORE THE MOON AND MARS

WHILE DEVELOPING CORE SKILLS IN PROGRAMMING, ENGINEERING, AND ROBOTICS

Since the Apollo 11 moon landing 50 years ago, generations of school children have seen how the real-world application of science, technology, engineering, and math (STEM) can lead to awe-inspiring achievements. Boxlight, the Aldrin Family Foundation, and ShareSpace Education (SSE) are partnering to provide students in the fourth through eighth grades with innovative, educational tools for STEM learning.

By integrating ShareSpace's Giant Moon Map™ and Giant Mars Map™ programs with the Mimio MyBot educational robotics system, STEM educational activities have never been more fun and rewarding. Through the use of these highly accurate, large scale floor-sized maps, students can be introduced not only to information about these planets, but also learn about map reading, evaluating and understanding topographic information, geology, how planets form, and the effect of impacts on these celestial bodies.

Further exploration is enhanced through the use of programmable Mimio MyBot rovers, which are equipped with various sensors to read information from the maps and return this data to the student mission controllers. Students can then use this information for formulating and testing hypotheses about Mars and the moon, as well as learning how to program the Mimio MyBot rovers for autonomous navigation and investigation. Teamwork and collaboration skills become honed as these multi-disciplinary teams explore, analyze, and make decisions together to complete different expeditions on these fascinating worlds.

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