



ARIZONA SCIENCE CENTER

The Moon and Beyond: An Immersive Game for STEM Learning in Museums and Planetariums

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Children conduct a test in their Moon adventure
Credits: Children's Creativity Museum for NISE
Network

Through funding from the TEAM II program, "Moon and Beyond" created a hands-on collaborative game for STEM learning in museums and planetariums, called Moon Adventure for audiences including families with children and students in grades 4-8. The Moon Adventure Game is a challenge-based immersive game, inspired by "escape room" experiences, which asks visitors to take on activities to help them think about what people might need to live and work on the Moon. The game is designed for three to six players and is intended to be played live with support from a facilitator. The 25-minute gameplay involves five

challenges that incorporate scientific concepts connected to lunar exploration, as well as introduction and closing elements. The game was distributed to 350 organizations across the US in December 2020. Digital game materials are freely available at <https://nisenet.org/moongame> and include detailed instructions to put together your own copy of the game.

List of Partners:

- Arizona State University
- Science Museum of Minnesota
- Museum of Life and Science
- Sciencenter
- Children's Creativity Museum
- Museum of Science, Boston
- National Informal STEM Education Network

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<https://www.nasa.gov/learning-resources/search/>