

# SCIENCE AND STORYTELLING

# WE SHARE THE SAME MOON

Thanks to our funders:











### THE PROBLEM

- The UK primary school curriculum contains some astronomy, but not a lot.
- Primary-age children often love space as a topic and have lots of questions.
- Many primary school teachers have no STEM background and find teaching this content a challenge.
- If science is not taught well to young children, it can switch them off the subject for life.

The question: can we help teachers without a science background teach astronomy in a creative and engaging way?

## **OBJECTIVES**

- ▶ Use 2019 anniversary of Apollo 11 landing on the Moon as a hook.
- ▶ Collect and collate Moon folktales from cultural groups represented in British society.
- ▶ Produce an online resource of Moon folktales in multiple accessible formats.
- Link these stories with aspects of the primary science curriculum.
- ▶ Develop, test and evaluate a series of curriculum-linked astronomy-based activities for use in primary school classrooms and informal educational settings.
- Link each activity with one or more folktale to use as a gentle introduction to the topic.
- ▶ Develop accessible resources linking the stories and activities, and test them in collaboration with our target audience (teachers and pupils, including SEND groups).
- Develop and deliver training for teachers and informal educators in using storytelling to communicate science creatively.

## **COLLABORATION AND TESTING**

- Astrophysicist: Dr Megan Argo, Senior Lecturer in Astronomy at the University of Central Lancashire.
- ▶ Storyteller: Cassandra Wye, professional storyteller with experience working with SEND groups.
- Pilot schools: Bath Schools Science Network (Bath, Bristol), St. Joseph's RC Primary School (Burnley), Puss Bank School (Macclesfield) all provided pilot audiences and helped us test the activities in the classroom.
- ▶ SEND pilot schools: Elmfield School of the Deaf and Westfield School provided audiences for the pilot phase and evaluation of suitability for SEND groups.
- Family events: Solarsphere festival (Wales), Bristol Museum, Alston Observatory
  (UCLan) allowed us to pilot activities with families and in informal educational settings.

#### RESULTS

- Developed and tested 21 creative science activities, each linked with the curriculum.
- Collected 41 folktales from 19 countries, each linked with an activity.
- Tested activities and stories in nine schools with twenty three classes and teachers.
- Tested activities in five informal settings with family audiences.
- ▶ Evaluated activities and modified following teacher and audience feedback.
- Created website to host all activities and stories together.
- Overall pilot audience: 1940 people during 2019.

#### ▶ Website: <u>www.wesharethesamemoon.org</u>

- All 21 science activities and 41 stories freely available for anyone to use.
- Science activities grouped by curriculum level and topic.
- > Stories grouped by country and approximate reading age.
- Tens of thousands of downloads from around the world.