



Clark Planetarium Tracy Aviary *Adventure Kit* Partnership

Program Overview

Clark Planetarium has teamed up with Tracy Aviary to create an *Adventure Kit* that educates and inspires exploration of two topics that seem unrelated to many: birds and the night sky. This *Adventure Kit* will give Tracy Aviary patrons the tools and information they need to explore birds, the Moon, and constellations in a self-guided experience all while gaining an appreciation for how birds are influenced by the Moon and stars. The *Adventure Kit* will focus on 1) bird identification and viewing, 2) use of a planisphere to identify constellations, 3) identification of key Moon features and understanding of Moon phases, 4) importance of dark skies and awareness of light pollution, and 5) influence of the lunar cycle/night sky on animal behavior, specifically birds, such as migration and orientation. *Adventure Kits*, which include two classroom kits (35 students each) and 55 individual kits, will be free to reserve and borrow from Tracy Aviary's Jordan River Nature Center. The checkout period has not been determined yet but will allow enough time for Moon and constellation observation. Tracy Aviary will administer the kit program.

Each classroom kit will include:

- 35 pair of Orion 10x50 binoculars with chest harness, great for bird and Moon viewing.
- 35 beginner's bird guides specific to Utah.
- 35 detailed Moon maps that identify craters, seas, and other important lunar features.
- 35 planispheres, or star wheels, that show the constellations in the night sky for any day/time.
- 35 RedBeam Mini LED lights to view reading material at night.
- Teacher binder with:
 - Tips and tricks to view birds along with a list of great birding spots in Salt Lake County.
 - Information on how the lunar cycle and night sky affects animal behavior with an emphasis on birds, specifically addressing feeding, orientation, and timing and volume of migration.
 - International Dark Sky information and best star/Moongazing locations in Salt Lake County and State of Utah.
 - Tips to reduce light pollution.
 - Information on a few key constellations and Moon features, as well as information on Moon phases.
 - Link to Clark Planetarium website and teacher newsletter signup information.
 - Link to Tracy Aviary information.





Each individual adventure kit will include:

- One pair of Orion 10x50 binoculars with chest harness, great for bird and Moon viewing.
- A beginner’s bird guide specific to Utah.
- Detailed Moon map that identifies craters, seas, and other important lunar features.
- Planisphere, or star wheel, that shows the constellations in the night sky for any day/time.
- RedBeam Mini LED light to view reading material at night.
- Tips and tricks to view birds along with a list of great birding spots in Salt Lake County.
- Information on how the lunar cycle and night sky affects animal behavior with an emphasis on birds, specifically addressing feeding, orientation, and timing and volume of migration.
- International Dark Sky information and best star/Moongazing locations in Salt Lake County and State of Utah.
- Tips to reduce light pollution.
- Information on a few key constellations and Moon features, as well as information on Moon phases.
- Link to Clark Planetarium website, citizen newsletter signup and membership information.
- Link to Tracy Aviary information.

Tracking Adventure Kit Use

Data on use (number of times individual and classroom kits are checked out, classroom size, etc.) will be reported to Clark on a temporal basis that makes sense for the Tracy Aviary (e.g., quarterly, annually). Additional information such as age and zip code will be collected.

Upkeep and Replacement of Missing or Damaged Kit Components

Tracy Aviary is responsible for upkeep or replacement of materials.





Equipment List and Cost

Item	Quantity	Unit Price	Total Price
Orion Stargazing Kit	125	\$41	\$5125
<ul style="list-style-type: none"> • 10x50 Binoculars • RedBeam Mini LED • Planisphere 			
Binocular Harness	125	\$11	\$1375
Utah Bird Guide	125	\$8	\$1000
Orion Moon Map	125	\$3.5	\$437.5
Stadium Bag – Individual Kits	55	\$11	\$605
Plastic Bin - Classroom Kits	2	\$20	\$40
TOTAL COST			\$8,807.50

