

JUNIOR GIRL SCOUTS WORKSHEET



THE
FRANKLIN
INSTITUTE

Junior Girl Scouts can work towards Badges through activities at The Franklin Institute.

ACTIVITIES AT THE FRANKLIN INSTITUTE

Walk around the museum and participate in activities while talking to scientists to make connections between badges and our exhibits.

MECHANICAL ENGINEERING: CRANE BADGE

BADGE STEPS

1. Explore simple and compound machines

EXHIBITS TO VISIT

- *Amazing Machine*

ACTIVITIES

1. In *Amazing Machine*, look for a variety of both simple and compound machines, especially the Crane device. In *Sir Isaac's Loft*, learn about pulley systems and how they might impact machines.

ROBOTICS 1 BADGE

BADGE STEPS

1. Learn how robots work
2. Discover the robot brain

EXHIBITS TO VISIT

- *Tech Studio*

ACTIVITIES

- 1, 2. In *Tech Studio*, look for the Cubelet robots. Find out more about how to build robots and how they work. If there is a volunteer, ask about ways in which robots are impacting society on a daily basis.

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SPACE SCIENCE INVESTIGATOR BADGE

BADGE STEPS

1. Model the Solar System
2. Circle the Sun
3. Discover the stars
4. Use the tools to explore

EXHIBITS AND THEATER SHOWS TO VISIT

- *Space Command*
- *Night Skies* (\$)
- Fels Planetarium
- Observatory

ACTIVITIES

1. In *Space Command*, look for the Orrery. Solar System Model. Bonus! You can even make a sketch of the solar system to circle the sun and understand its movements. You can share it with your family, friends or Girl Scouts to “Share your Sky”
2. In *Space Command* or the Observatory, look for exhibits about the Sun.
3. In *Space Command* or during a Planetarium show, look for information about the stars.
4. In the Observatory, look for the Zeiss refracting telescope.

More Opportunities to explore the skies!

Join us for one of our special evening events, *The Sky Tonight!* These are a separate ticket than regular admission so call ahead for dates and availability.

See one of our Planetarium Shows! *Planetarium shows are included in regular museum visits, but not group visits, call ahead to make a reservation.*