

BROWNIE GIRL SCOUTS WORKSHEET



THE
FRANKLIN
INSTITUTE

Brownie Scouts can work towards Badges with 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.

HOUSEHOLD ELF BADGE

BADGE STEPS

1. Save Energy
2. Save Water

EXHIBITS TO VISIT

- *Electricity*
- *Changing Earth*

ACTIVITIES

1. In *Electricity*, look for exhibits about reducing electricity use.
2. Visit the *Changing Earth* exhibit where you can learn about water usage. Try to think differently about ways to save water, how much water we use and ways you think we can conserve!

INVENTOR BADGE

BADGE STEPS

1. Warm up your inventor's mind
2. Find lots of ways to solve the same problem

EXHIBITS TO VISIT

- *Amazing Machine*
- *Tech Studio*

ACTIVITIES

1. In *Amazing Machine*, Put your inventor's cap on and try to think about how and why these inventions were created.
2. In *Tech Studio*, look for design challenges.

MECHANICAL ENGINEERING: FLING FLYER BADGE

BADGE STEPS

1. Learn about forces that affect flight.
2. Design and build a Fling Flyer

EXHIBITS TO VISIT

- *The Franklin Air Show*

ACTIVITIES

- 1, 2. Visit *The Franklin Air Show* to find out more about the four forces of flight and design your own flying devices.

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MY BEST SELF BADGE

BADGE STEPS

1. Get to know your body
2. Eat and play in a healthy way
3. Find out how your body works

EXHIBITS TO VISIT

- *The Giant Heart*
- *Your Brain*
- *Sports Zone*

ACTIVITIES

1. In *Your Brain*, look for exhibits about your brain and senses.
2. In *Sports Zone*, look for exhibits about calories, hydration, and exercise.
3. In *The Giant Heart*, look for exhibits to learn how your cardiovascular system works.

ROBOTICS BADGE

BADGE STEPS (ROBOTICS 1)

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. If there is a volunteer, ask how robots work and how they are impacting society.

SPACE SCIENCE ADVENTURER BADGE

BADGE STEPS

2. See more than before
3. Investigate the Moon
4. Be a stargazer

EXHIBITS AND THEATER SHOWS TO VISIT

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

ACTIVITIES

2. In the Observatory, look for the Zeiss refracting telescope. What can you understand that you couldn't before?
3. In *Space Command*, you can see an actual Moon rock! Furthermore, check out phases of the Moon throughout the year?
4. In *Space Command*, look for the Orrery Model to understand the stars. You can also Join us for a Night Sky event or a *Sky Tonight* show in our Planetarium.

Note: Planetarium admission is included with individual tickets and is a \$5 upcharge for groups. Night Skies is a separate event, call ahead for tickets and availability.

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THINK LIKE AN ENGINEER BADGE

BADGE STEPS

1. Find out how engineers use design thinking to solve problems

EXHIBITS AND THEATER SHOWS TO VISIT

- *Dream Big: Engineering Our World*
IMAX® Film (\$)
- *Sir Isaac's Loft*

ACTIVITIES

1. Learn about how engineers use their imaginations to create solutions for the problems of the future in the IMAX® film, *Dream Big*. What are some of the ways that engineering challenges have been solved in your community? After the film go check out the *Sir Isaac's Loft* exhibit. What can you learn about the physics of weight, motion and movement that engineers would apply in their jobs?

* *Dream Big* is a limited engagement IMAX® Film. Check ahead to make sure its playing during your visit.