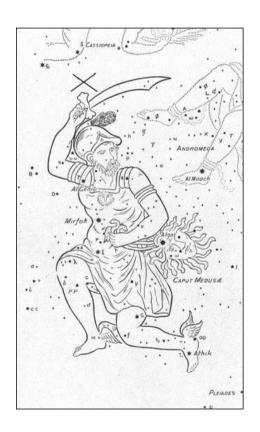
# Heroes of the Sky



4th Grade Planetarium Program Howard B. Owens Science Center PRE-VISIT MATERIALS

# Pre-Visit Activity One: Make and Take - Planisphere

Star Maps are fantastic tools for helping identify stars and constellations. However, most star maps are designed to show you only a "snapshot" of the sky at a particular time and date. To be able to locate stars/constellations for any time of the year at any time during the night, another useful tool is a planisphere.

### **Materials:**

Teachers: Access to Internet and printer; enough Cardstock paper to print two pages per student Students: Pair of scissors

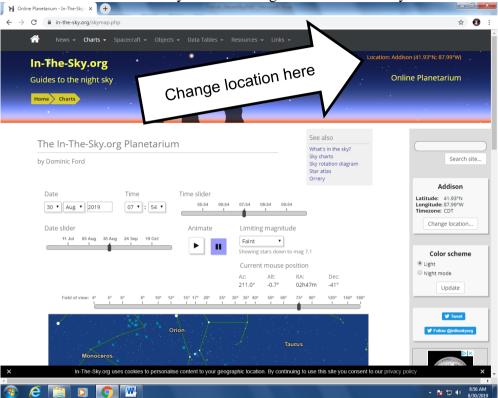
### **TEACHERS:**

- Log on to http://www.lawrencehallofscience.org/starclock/skywheel.html
- Print out the directions page for your students
- Click on the link to download the Starwheel file.
- Print the first two pages of this file on cardstock (one set each per student).
- Guide the students through the creation and use of the Starwheel.
- OPTIONAL: Have students bring their starwheels to the planetarium program! We will put them to use!

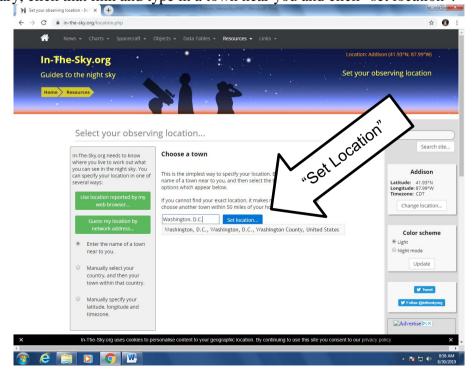
## Pre-Visit Activity Two: (Web 2.0) The Sky – Live!

Interact with the sky using the online "planetarium": <a href="https://in-the-sky.org/skymap.php">https://in-the-sky.org/skymap.php</a>

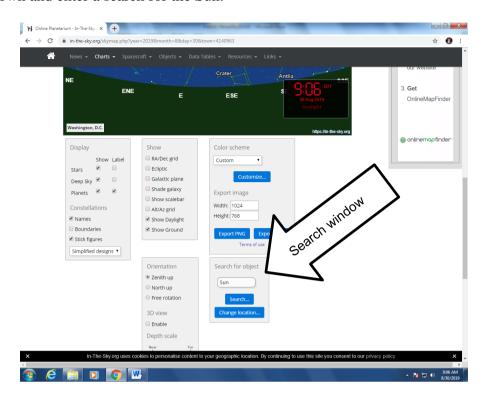
1. Check the "location" to make sure you are looking at the skies above you.



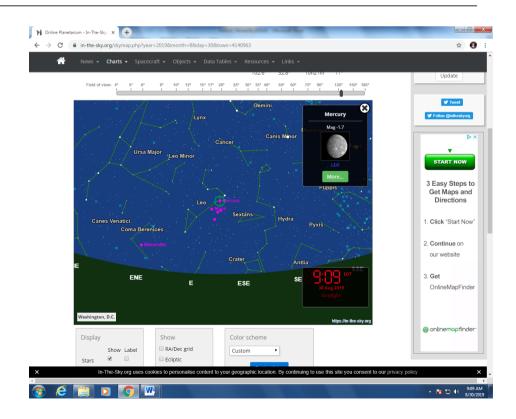
2. If necessary, click that link and type in a town near you and click "set location".



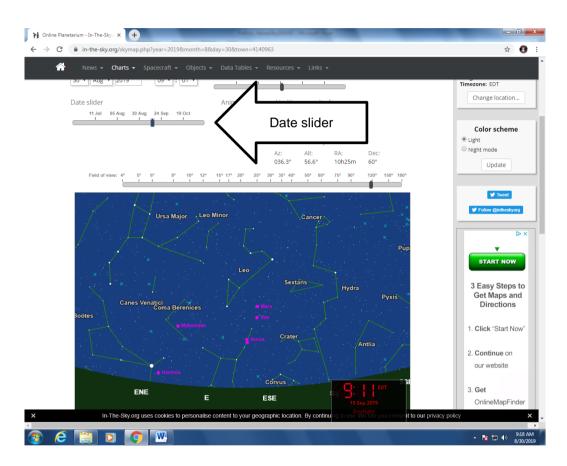
3. Scroll down and enter a search for the Sun.



4. Scroll up to view screen and locate any planets near the Sun and click on them. List the planets near the Sun:



Use the date slider to go forward five to ten days and observe the Sun and planets. Describ	е
hat you see	
<del></del>	



*THINK:* Why did the Sun behave as you observed? Why did the planets behave as you observed? Make a claim about your observations. Provide your evidence and reasoning.


 —

5. Explore freely, seeing what other constellations and stars you can identify!

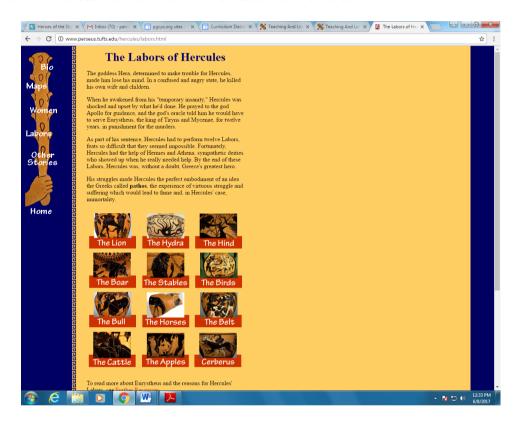
# **Pre-Visit Activity Three: The Labors of Hercules**

Materials: Access to Internet; this worksheet

Name			
Name			

1. To learn about the most famous Greek hero (demigod), link to <a href="http://www.perseus.tufts.edu/hercules/labors.html">http://www.perseus.tufts.edu/hercules/labors.html</a>

There is a link to each one of the Twelve Labors of Hercules.



2. Click on each link to answer the following:

A) One of the traits which characterizes Hercules is his great strength. Use evidence from at least two of his labors to support this claim.						

EOGD A D					
using the	HY! Circle the following Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
	Labors of Hercules:	ng cities on the	map of Greed	ce and explain	the importance
using the	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
using the	Labors of Hercules:	ng cities on the	map of Greed	ce and explain	the importance
using the	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
using the	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
Mycen	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
Mycen	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
Mycen	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
Mycen  Lerna:	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance
Mycen	Labors of Hercules:	ng cities on the	map of Greec	ce and explain	the importance

•	Nemea:
•	Stymphalia:



From http://www.ancient-greece.org/images/maps/map-divisions/9-greece.jpg