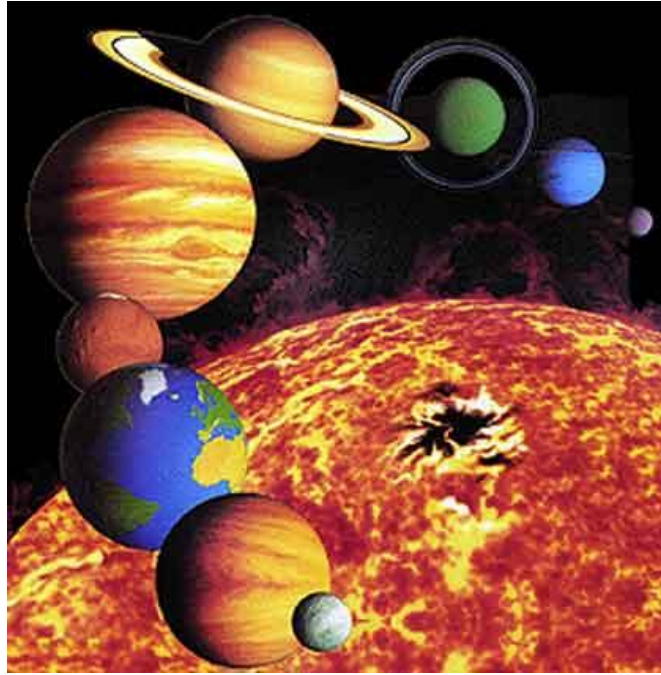


Sky Quest

NCSO Sample Event
2010 Elementary Tournament
Grade 3 Goal 3



STATION 1



1. Which of the following is NOT one of the inner planets?
 - a. Earth
 - b. Neptune
 - c. Venus
 - d. Mercury
2. Which planet is famous for its rings?
3. What do all of our planets orbit around?
4. True or False: On planets other than earth you can also find polar ice caps, major storms, volcanoes, moons, and river beds.
5. Which planet is between Mercury and Earth?

STATION 2



6. What notable feature is in our solar system between Mars and Jupiter?
- The Oort Cloud
 - The Asteroid Belt
 - Haley's Comet
 - Earth
7. Which of the following does NOT describe an asteroid?
- Shows a visible tail
 - Travels in an orbit
 - Varies in size from a house to a small planet
 - Also referred to as Minor Planets

Matching:

- | | |
|---------------|---|
| 8. Meteoroid | a. A smaller particle of debris in the solar system, sand to boulder size. |
| 9. Meteor | b. The path of an object that has come into earth's atmosphere, often called a shooting star. |
| 10. Meteorite | c. An object that enters earth's atmosphere and survives impact with the earth's surface |

(NCSCoS Grade 3 Goal 3)

STATION 3

True or False?

11. Satellites can be natural or artificial.
12. Satellites repel each other.
13. The earth is a natural satellite.
14. All satellites have an orbit that they follow.

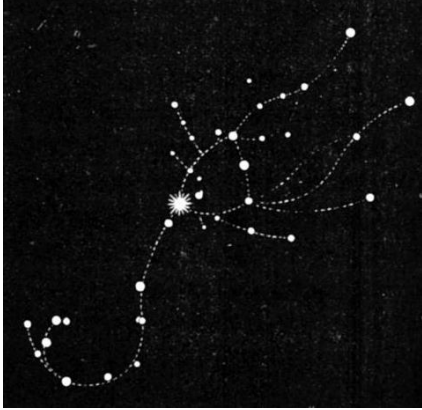
Fill in the Blank:

15. The Moon is a satellite for the _____
16. The Earth is a satellite for the _____

STATION 4

Identify the major constellations shown here:

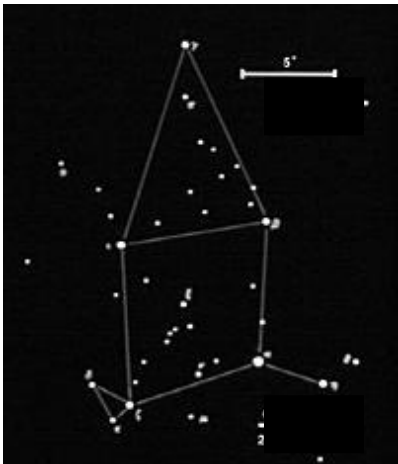
17.



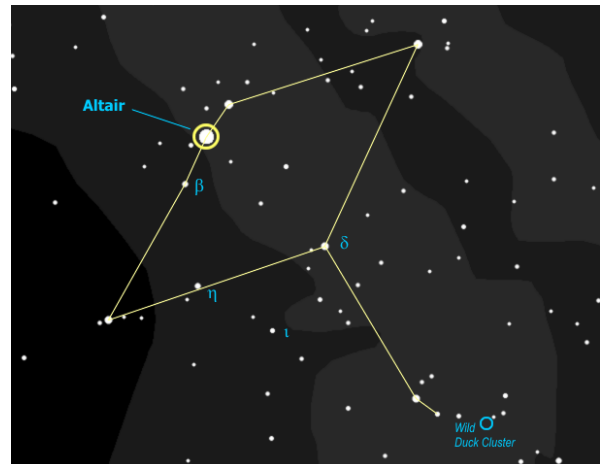
20.



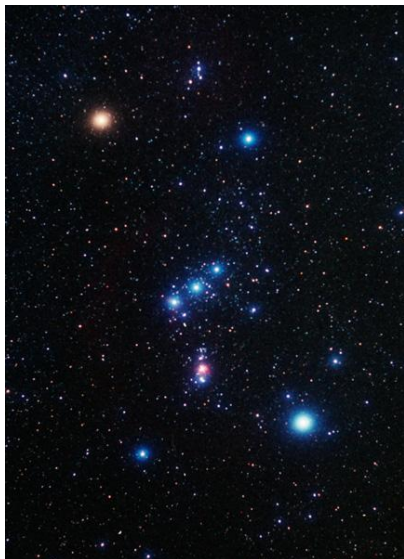
18.



21.



19.

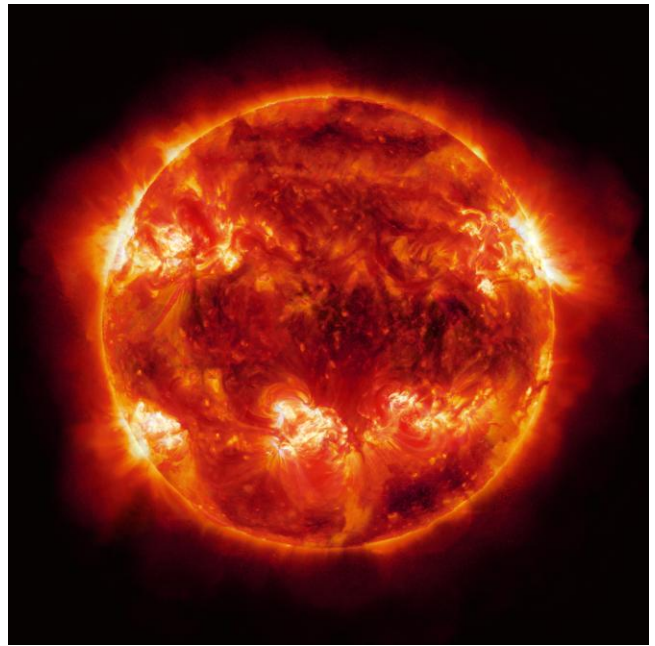


Choose from:

Aquila, Canis Major, Canis Minor,
Cassiopeia, Cepheus, Cygnus,
Gemini, Leo, Orion, Pegasus,
Scorpio, Ursa Major, Ursa Minor, or
Virgo

STATION 5

22. The sun is a/an:
- Planet
 - Comet
 - Asteroid
 - Star
23. The sun has cooler places on it, these are called:
- Solar flares
 - Dead zones
 - Sun spots
 - Oasis
24. The Sun is made of:
- Burning gases
 - Molten rock
 - Plutonium
 - Quartz
25. Which of the following should you do whenever you are out in the sun?
- Wear sunglasses to help protect your eyes
 - Wear sunscreen to help block the UVA and UVB rays
 - Never look directly at the sun
 - All of the above



STATION 6



26. What makes a comet different from an asteroid?
- Comets have a tail
 - Asteroids are made of ice
 - Comets travel in a straight line and asteroids travel in an orbit
 - Comets always have to be viewed with a telescope
27. Which of the following is not a comet?
- Hale-Bopp
 - Halley's
 - Shoemaker-Levy
 - Betelgeuse-Rigel
28. True or False: Comets emit their own light
29. Which of the following BEST describes a comet?
- Dirty snowball
 - Ice cube
 - Polished gem
 - Ball of gas

STATION 7

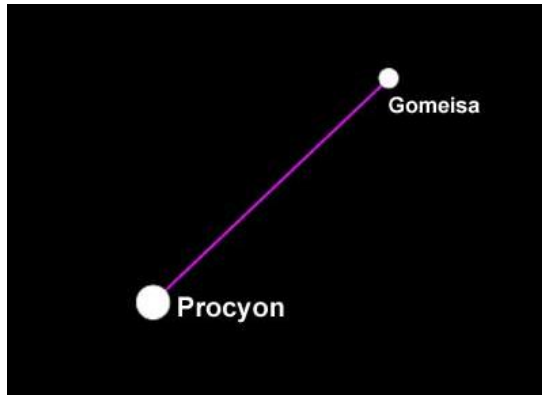
Label the moon phases:



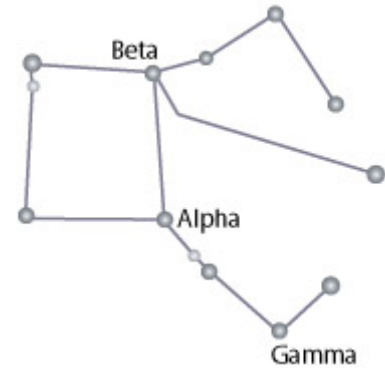
STATION 8

Identify the constellations:

38.



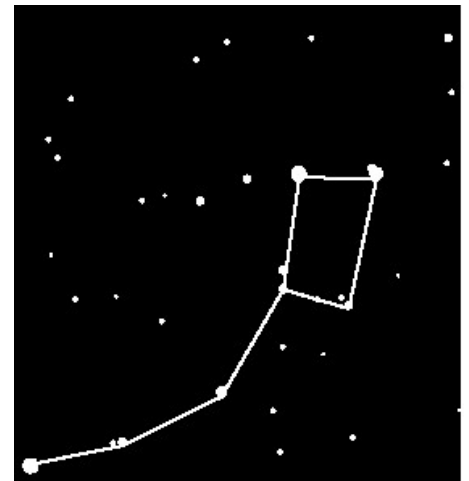
40.



39.



41.



Choose from: Bootes, Canis Major, Canis Minor, Cygnus, Draco, Leo, Pegasus, Ursa Major, Ursa Minor, Virgo

STATION 9

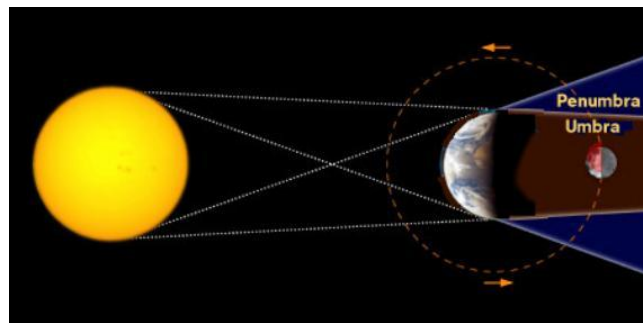


Identify each eclipse as solar or lunar:

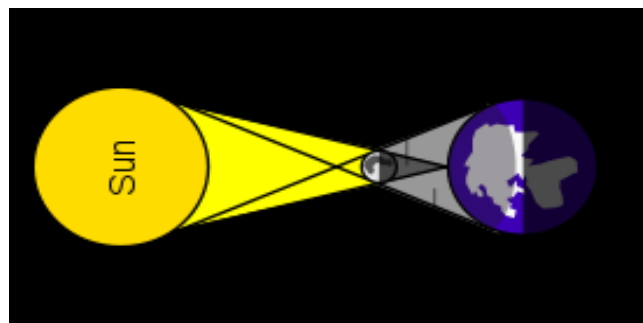
42. The moon is between the earth and the sun

43. The earth is between the moon and the sun

44.



45.



(NCSCoS Grade 3 Goal 3)

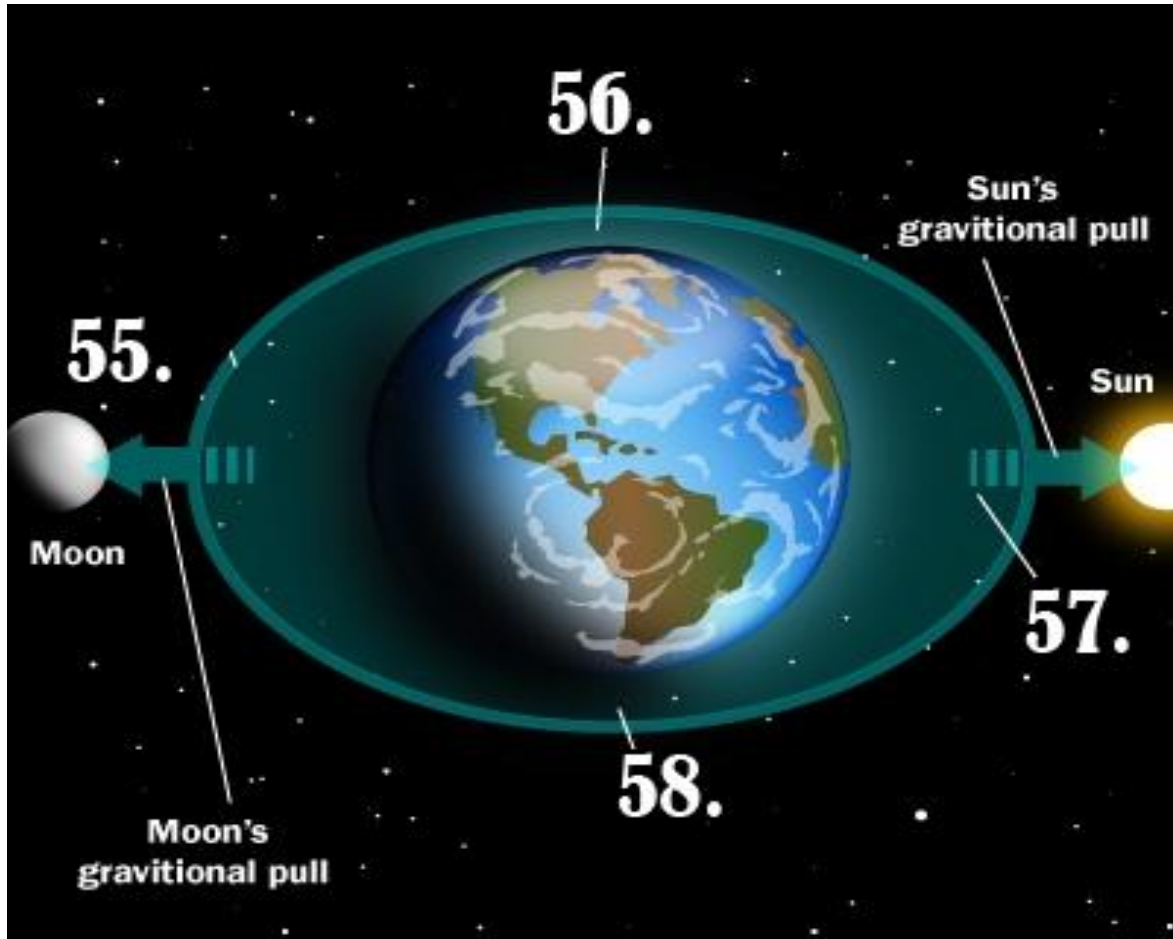
STATION 10

Match each planet to its description:

- | | |
|-------------|---|
| 46. Mercury | a. The largest planet in our solar system is famous for its great red spot. It is a 'gas giant' with 16 moons. |
| 47. Venus | b. A cold blue-green planet, takes 165 earth years to orbit the sun. |
| 48. Earth | c. Dry and hot, appears yellow because its clouds are made of sulfuric acid |
| 49. Mars | d. Looking like it orbits sideways, this outer planet takes 84 earth years to orbit the sun. |
| 50. Jupiter | e. The smallest and furthest planet from the sun, was once thought to be a moon of Neptune. |
| 51. Saturn | f. The only planet in our solar system that can currently sustain life. |
| 52. Uranus | g. Very hot, a sun-baked planet close to the sun. |
| 53. Neptune | h. Famous for its rings, this cold planet made of gas also has several moons. |
| 54. Pluto | i. This red planet has huge dust storms. All of its water is frozen in polar ice caps and is thought to have once been capable of sustaining life. It is the last of the inner planets. |

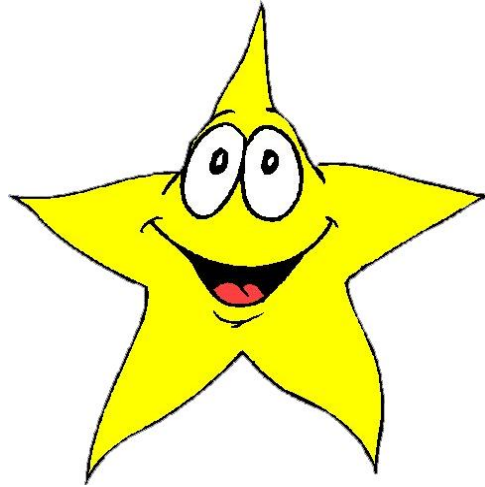
STATION 11

Identify if there will be high or low tide in the spot indicated:



(NCSCoS Grade 3 Goal 3)

STATION 12



Match each star with its description:

59. Betelgeuse

60. Pollux

61. Sirius

62. Polaris

a. The “North Star”, at the end of the little dipper

b. The brightest star in Gemini, has its own orbiting planet

c. The second brightest star in Orion, located in his shoulder

d. The brightest star in the night sky, part of Canis Major

(NCSCoS Grade 3 Goal 3)

2010 Sky Quest

NCSO Sample Event- Student Response Sheet

Names: _____ , _____

School: _____

Station 1:

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____

Station 2:

- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____

Station 3:

- 11. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____
- 16. _____

Station 4:

- 17. _____
- 18. _____
- 19. _____
- 20. _____
- 21. _____

Station 5:

- 22. _____
- 23. _____
- 24. _____
- 25. _____

Station 6:

- 26. _____
- 27. _____
- 28. _____
- 29. _____

Station 7:

- 30. _____
- 31. _____
- 32. _____
- 33. _____
- 34. _____
- 35. _____
- 36. _____
- 37. _____

Station 8:

- 38. _____
- 39. _____
- 40. _____
- 41. _____

Station 9:

- 42. _____
- 43. _____
- 44. _____
- 45. _____

Station 10:

- 46. _____
- 47. _____
- 48. _____
- 49. _____
- 50. _____
- 51. _____
- 52. _____
- 53. _____
- 54. _____

Station 11:

- 55. _____
- 56. _____
- 57. _____
- 58. _____

Station 12:

- 59. _____
- 60. _____
- 61. _____
- 62. _____

2010 Sky Quest

NCSO Sample Event- Student Response Sheet

ANSWER KEY

Station 1:

1. ____B____
2. Saturn
3. The sun
4. True
5. Venus

Station 2:

6. ____B____
7. ____A____
8. ____A____
9. ____B____
10. ____C____

Station 3:

11. True
12. False
13. True
14. True
15. Earth
16. Sun

Station 4:

17. Scorpio
18. Cepheus
19. Orion
20. Ursa Major
21. Aquila

Station 5:

22. ____D____
23. ____C____
24. ____A____
25. ____D____

Station 6:

26. ____A____
27. ____D____
28. Highly contested,
encourage
students to
research this
29. ____A____

Station 7:

30. New Moon
31. Waxing Crescent
32. First Quarter
33. Waxing Gibbous
34. Full Moon
35. Waning Gibbous
36. Last Quarter
37. Waning Crescent

Station 8:

38. Canis Minor
39. Leo
40. Pegasus
41. Ursa Minor

Station 9:

42. Solar
43. Lunar
44. Lunar
45. Solar

Station 10:

46. ____G____
47. ____C____
48. ____F____
49. ____I____
50. ____A____
51. ____H____
52. ____D____
53. ____B____
54. ____E____

Station 11:

55. High
56. Low
57. High
58. Low

Station 12:

59. ____C____
60. ____B____
61. ____D____
62. ____A____