

In the Stars Hour Bonus

Discovery Questions

Answer these questions about discovery in astronomy	
1	Six planets have been known to exist since antiquity, since they can be seen with the unaided naked eye. List them in order from largest to smallest radii.
2	Before 2006, there were three more recognized planets, all discovered using mathematical predictions and the telescope. List them in order from largest to smallest radii.
3	Create one of these three lists (state which list you choose) 1) Discoverers of the three planets in Question 2 2) Country of discovery of planets in Question 2 3) Year of discovery of planets in Question 2
4	Before being given its final and current name, which planet was originally named "George's Star" in honor of King George III?
5	In 1610, using the newly invented telescope, Galileo Galilei was the first to see four objects orbiting another planet. List them in order from largest to smallest radii.
6	To which Italian family did Galileo dedicate these newfound objects, and what city were they from?
7	We live in a group of galaxies known as Local Group. List the three largest galaxies of this group in order from largest to smallest.
8	Create one of these three lists (state which list you choose) 4) Likely discoverers of the three galaxies in Question 7 5) Country of discovery of galaxies in Question 7 6) Year of discovery of galaxies in Question 7
9	List five of the 110 astronomical objects known as Messier Objects.
10	List the five currently recognized dwarf planets in the solar system.

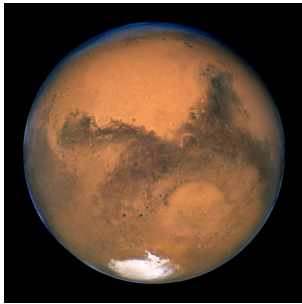
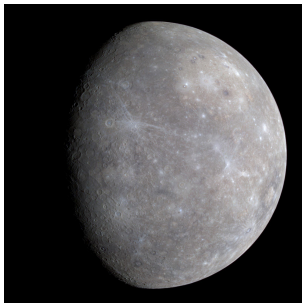
Multiple Choice

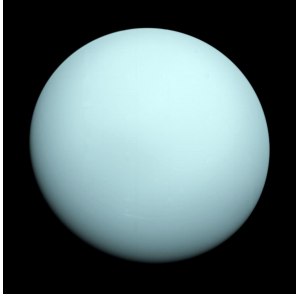
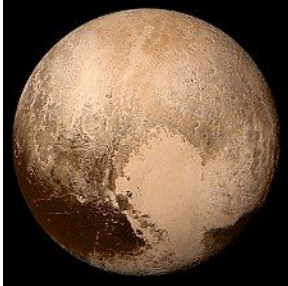
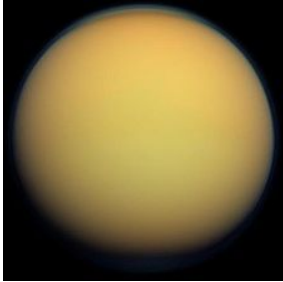
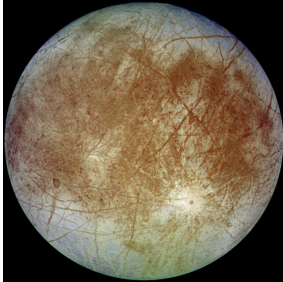

Answer these multiple choice questions	
11	Which of these planets is not a terrestrial planet? a) Mercury b) Venus

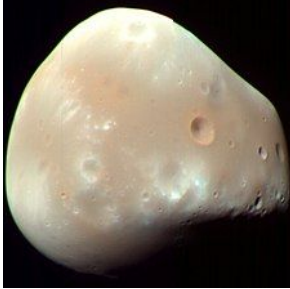

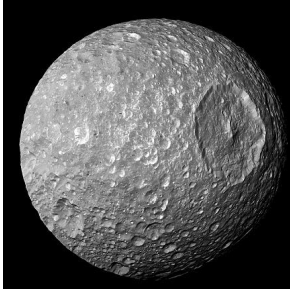
	<ul style="list-style-type: none"> c) Earth d) Mars e) Jupiter
12	<p>In the 20th century, how many of the following feats did the United States achieve?</p> <ul style="list-style-type: none"> a) First satellite in space b) First human in space c) First human on the moon d) First animal in space e) First spacewalk
13	<p>Which of these objects has come into contact with Soviet probes?</p> <ul style="list-style-type: none"> a) Neptune b) Venus c) Phobos d) Titan e) Saturn
14	<p>Which of these objects orbits in a retrograde, or “clockwise,” direction?</p> <ul style="list-style-type: none"> a) Mercury b) Neptune c) Venus d) Saturn e) Earth
15	<p>Which of these is the brightest star in the night sky?</p> <ul style="list-style-type: none"> a) Betelgeuse b) Rigel c) Alpha Centauri d) Polaris e) Sirius
16	<p>The word “planet” is derived from the Greek word “planetai,” which translated means?</p> <ul style="list-style-type: none"> a) Deity b) Wanderer c) Gardener d) Falling Star e) Lost Star
17	<p>An installation in MASS MoCA exhibits the average color of the universe, which is called?</p> <ul style="list-style-type: none"> a) Cosmic Latte b) Cappuccino Cosmico c) Astronomer Green d) Skyvory e) Primordial Clam Chowder
18	<p>Which of the following stars’ names is of Arabic origin?</p>

	<ul style="list-style-type: none"> a) Electra b) Sirius c) Atlas d) Vega e) Maia
19	<p>Which of the following stars is not a member of the Pleiades star cluster?</p> <ul style="list-style-type: none"> a) Maia b) Taygeta c) Arcturus d) Alcyone e) Electra
20	<p>Which of the following is not the name of a crater on Earth's moon?</p> <ul style="list-style-type: none"> a) Picard b) Metius c) Pilatus d) Tycho e) Galilei


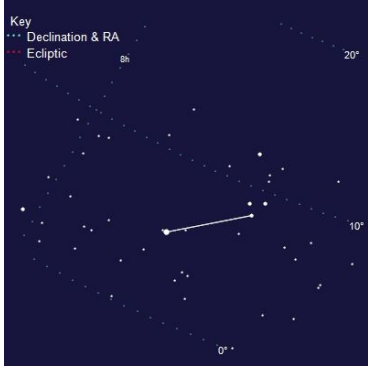
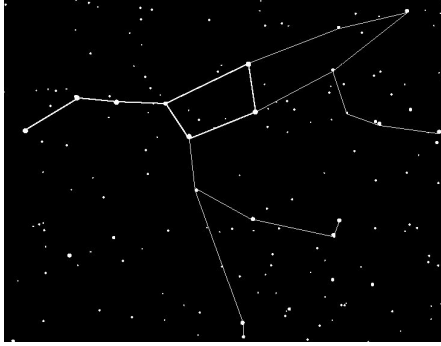
Recognizing Celestial Objects

	Name the celestial object given the picture
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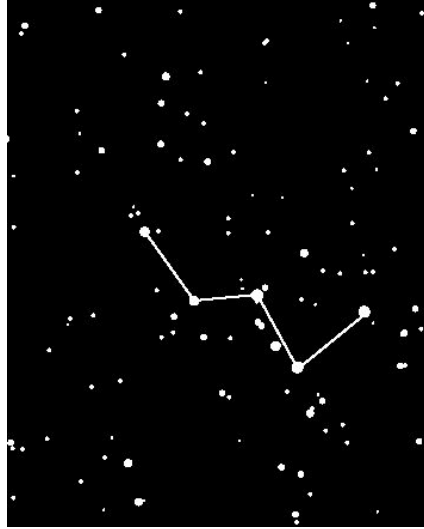
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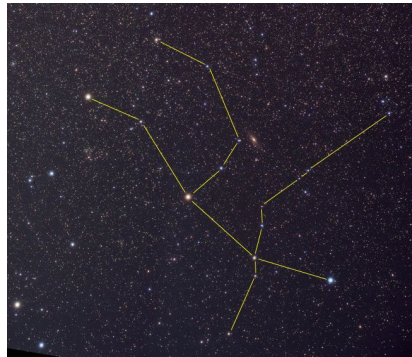
Recognizing Constellations

	Name the constellation given the picture
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32	
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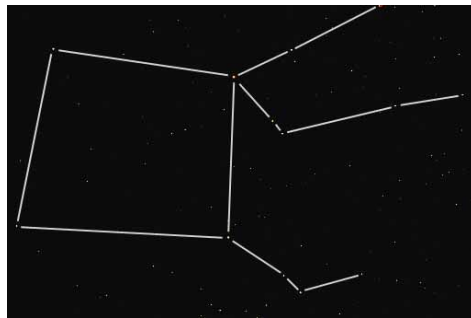
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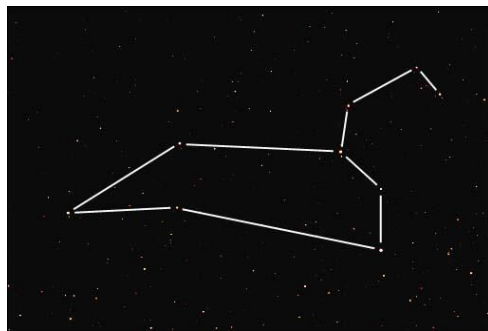
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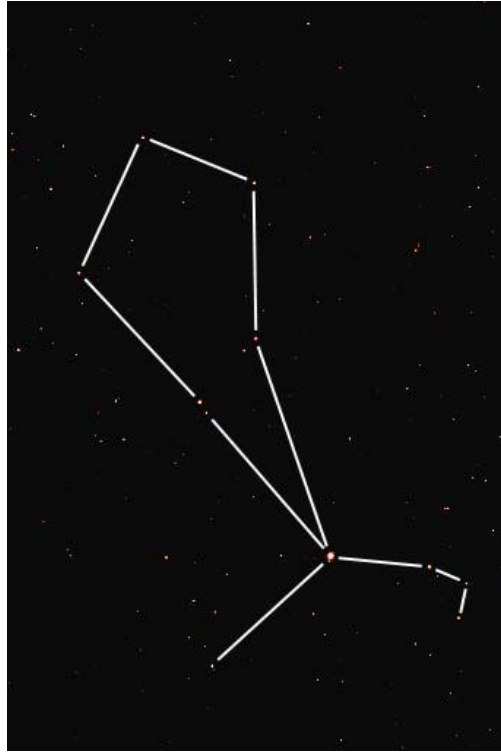
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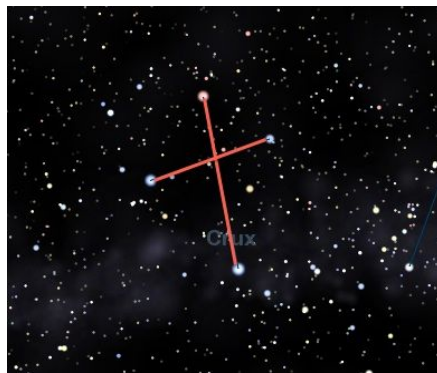
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Women in Astronomy

	Given a woman and her picture, name the significant contribution to astronomy and space exploration each woman made.
41	 <p>Annie Jump Cannon</p>
42	 <p>Maria Mitchell</p>

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Algaonice

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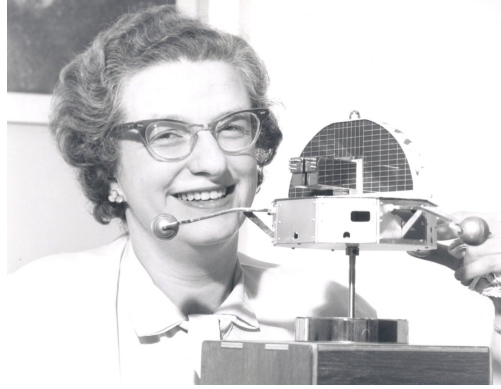
Katherine Johnson

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Jocelyn Bell Burnell

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Nancy Roman

47



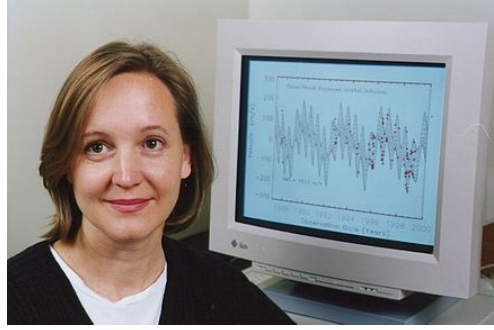
Mae Jemison

48



Cecilia Payne

49



Debra Fischer

50



Vera Rubin