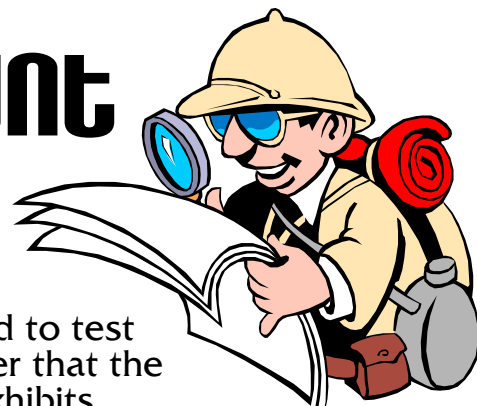


ASTRO-SCAVENGER HUNT



Welcome to the Christa McAuliffe Planetarium!
We hope you enjoy your visit. There is a lot to see right here in our exhibit hall. The questions below are designed to test your skills of observation and detection. Please remember that the questions are not necessarily in the same order as the exhibits themselves - you will have to search! Enjoy the challenge and have FUN!!

When you have finished with the Astro-Scavenger Hunt, you can get an answer key at the Front Desk.

1. Find the model of the HUBBLE Space Telescope. This is a 1/22nd scale model of the Hubble Telescope. The full size telescope is about the size of a _____
2. Look in the hall for the tall wooden clock (the Puksta Clock). To what time zone/meridian is this clock set? (A) _____
In New Hampshire, by how many hours does this differ from our local time? (B) _____ hours
3. Find the stained glass exhibit titled ASTRONOMY. It features people who have played a major role in the history of astronomy. One of these people said that he felt "...like a boy playing on the sea-shore ...whilst the great ocean of truth lay all undiscovered before me." Who was he? (Circle one)
Edwin Hubble Albert Einstein Isaac Newton John Glenn
4. In the same exhibit, there is a picture of a circle with some strange markings (it's on the lower left side). This is Newgrange, an ancient grave that predates Stonehenge. Its main axis is perfectly aligned with the December solstice sunrise. Where is Newgrange located? (HINT: Look on the same wall, next to the exhibit.) _____
5. Find the NASA BRAIN BITES exhibit. What process is used to make the Space Toilet work?
(A) _____
(B) Sound requires a _____ to travel through.
(C) Can you hear sounds in space? (Circle one)
Yes No
6. At the STAR PILOT exhibit, at what level(s) did you attempt to land the shuttle?

7. The GRAVITY WELL demonstrates what happens when a large star collapses inward to a single point. Nothing can escape its gravity, not even light! If you spin a coin down into the center, you will see it pulled in, never to return. If this were a real collapsed star we would call it a: (Circle one)
spy hole sun spot black spot black hole

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8. Find the big glass case with a model of the International Space Station, or ISS, inside. This is a 1/144 scale model of the ISS. This means the real ISS would be 144 times larger than the model! The real station is only partially built now and will take at least five more years to complete. When complete, the ISS will be wider than a football field is long!

The completed ISS will have an end-to-end width of _____ feet!

9. In the case with the model of the ISS are also models of rockets that have carried us through the Space Program.

Who took the first "Space Toilet" into orbit? (A) _____

What rocket carried him into space? (B) _____

10. On the wall near the entrance to the "Discovery Room" is a portrait of the Challenger Crew. All seven people perished when Challenger exploded shortly after liftoff on January 28, 1986. Among them was America's first "Teacher in Space", Christa McAuliffe. There was a second woman on the crew.

What is her name? _____

11. For which school did Christa McAuliffe teach? _____

12. Look up! Just by the entrance to the theater there is a 12-inch globe representing Earth. The 3-inch Moon is hanging nearby at the correct place to show the scale of the distance between them. Can you find the Moon?

The real Moon is _____ miles away from Earth.

13. On the walls near the theater entrance there are two large murals. One mural is of the planets, their sizes and symbols. The symbols, some of which have historical meaning, represent the planets.

Draw the symbol for Earth: (A)

The other mural compares the sizes and temperatures of stars. The stars pictured here are as they would look if they were all the same distance from us. Quite a variety of size and color!

The hotter stars are: (Circle one) (B) RED BLUE

The cooler stars are: (Circle one) (C) RED BLUE

14. What is the name and color of the largest star pictured? _____

15. What is the name of a medium-sized yellow star? _____

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16. Find the "Discovery Room" sign. Look above it and you will find a symbol for the Sun (circle with a dot in it). This is the beginning of an exhibit that runs the length of the exhibit halls, and represents the order of the planets and their orbits. At this scale, the Sun is only $\frac{1}{2}$ the width of the vertical blue line, and the planets are too small to be seen. Instead, the planets' orbits are indicated by the colored sections of Mylar - the wider the Mylar, the more elliptical (more oval than circular) the orbit.

Which planet has the most circular orbit, as indicated by the thinnest strip of Mylar?

(A) _____

Which has the most elliptical orbit?

(B) _____

17. Across from the front desk, near the painting of Christa McAuliffe, stands a model of the largest rocket NASA has ever built.

What is the name of the rocket?

(A) _____

How tall was the real rocket?

(B) _____

Where did it help us go?

(C) _____

18. Mounted on the wall in the SUNBEAMS exhibit is the GEOCHRON, which displays the distribution of sunlight all over the world at any given time. In the center is a figure-eight shape called the ANALEMMA. It represents the apparent path the Sun follows throughout the year. Look carefully and you can find the round "dot" somewhere on the analemma, which is showing exactly where the Sun is shining directly overhead right now.

What time of day is it at that spot? _____

19. When looking at the fluorescent light through the spectroscope, what type of spectrum do you see?

(A) (circle one)

emission

absorption

(B) Note at least two colored lines and record the corresponding number over the bright colored lines.

Color: _____ Number: _____

Color: _____ Number: _____

20. Near the front entrance is a picture of a galaxy. Which one is it? _____