



Welcome to the Planet Pavilion – here are some questions to answer!

Look up! In the ceiling is a clockwork model of the Solar System

In the middle of the Solar System is the Sun
The Sun is a star.

1. What **shape** is the Sun?
Tick the right box.



Star shaped



Ball shaped



Box shaped

Turn the handle to make the Solar System move!

2. What is going around the Sun?
Circle the right answer.

Planets

Stars

Moons

3. What is going around the Earth?
Circle the right answer.

A planet

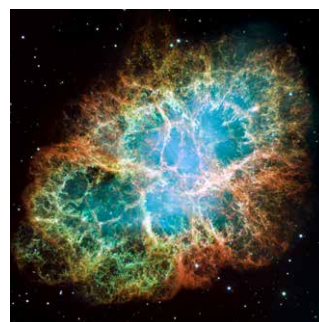
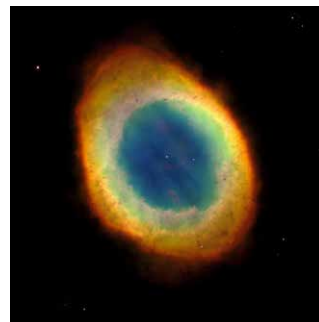
The Moon

A star

4. How many planets are there in the Solar System?
Count them and write your answer in the box.

There are some space pictures on the walls!

5. Look for these pictures on the walls.
Tick the box when you've found them!



Worksheet 2 / Planet Pavilion

The planets have all been jumbled up!

Step 1: Write the name of the planet next to its picture (look up at the Orrery for help!)

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Step 2: Draw a line from the planet to its description

"I am the largest planet in the Solar System."

"I have been tipped over onto my side!"

"I am the closest planet to the Sun."

"I have lots of humans living on me!"

"I am the hottest planet in the Solar System."

"I am sometimes called The Red Planet."

"I have rings made of chunks of rock and ice."

"I go around the Sun slowest."

Worksheet 3 / Space Pavilion



Welcome to the Space Pavilion – here are some questions to answer!

Find the wooden model of the Lovell telescope

1. **Draw** the telescope in the box.

Next... find the **TV screen** that shows you in strange colours

This camera sees **heat** instead of visible light! If you can't see yourself, you're too close! **Move backwards from the screen!**

2. What **colour** on the screen is...
(a) Your face?

- (b) Your clothes?

3. Which do you think is **hotter**, your face or your clothes?
Circle your answer.

Face

Clothes

Next... find the **black hole!**

Try **rolling a ball** into the black hole.

4. Why do you think the ball falls into the black hole?
Circle the right answer.

The ball jumps in

A magnet pulls it in

Gravity pulls it down

The hole sucks it in

Worksheet 4 / Space Pavilion

Next... go under the **giant cone** and press the **big red button**

5. This is a sound from space, but what do you think it sounds like?

Next... find the **glass ball** with **electricity** in it

6. What happens when you touch the ball?
Circle the right answer.

Electricity goes
into my finger

Electricity shoots
out of my finger

Next... find the **box** in the middle of the floor, with the **pole sticking out**

Make sure no one's head is in the way before you spin the pole!

- Pick up a rod with a ball at each end.
- Can you get this rod to balance on the top of the pole?
- If you spin it around gently, does it stay on the pole?

Next... find the **see-through telescope**

Make sure you don't stand in front of the telescope, otherwise you'll block the view!

7. Which of these pictures can you see through the telescope? Tick the right one.



There is lots more to explore in this area!
What else can you find?

Worksheet 5 / First Light Pavilion



Welcome to the First Light Pavilion! Here are some questions to answer!

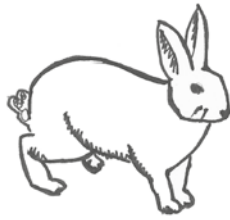
Find the snake head.

1. Snakes can see an invisible kind of light that our eyes can't.

Tick which of these animals the snake can see



Deer



Rabbit



Dog



Rat

Find the model of the rocket.

Nearby there is a desk like the one the controller uses to move the real Lovell telescope.

2. Can you turn the handles to make the telescope point at a planet? What is its name?

Bonus question: What year was the Lovell telescope built?

Hint: If you can't find the answer, try asking a Jodrell Bank member of staff!

Did you know?

Our telescopes at Jodrell Bank see an invisible kind of light too!

Worksheet 6 / Space Pavilion

When Bernard Lovell first came to Jodrell Bank he was studying rocks from space sometimes called shooting stars. Can you **find** the real space rock?

3. What is the science word for a shooting star?

m e t e o r

Can you lift it? Does it feel heavy or light?

Stand under the lamp and you will hear the voice of the man who first came to do astronomy at Jodrell Bank.

4. What is his name?

Astronomy means studying stars and space.

Find somewhere that you can **dress up like a spy!**

Did you know? The Lovell telescope was really used by the British Government for secret work during the 1950s and 1960s!

Find the UFO and climb inside.

Did you know? The Lovell Telescope really does look for aliens sometimes! We search for signals sent out by alien technology, but so far we haven't found any...