**Science Court Seasons Answer Key**

**Part One**

1. The curved path Earth follows around the sun is called an orbit.
2. If you are 8 years old, you and the Earth have gone around the sun eight times.
3. Earth’s orbit is in the shape of an oval or an ellipse .
4. No Earth isn’t always the same distance from the sun.
5. The average distance of Earth from the sun is 150 million kilometers or 93 million miles.
6. A distance of 5 million miles is no big deal because \_comapred to the average 150 million kilometers from the sun the distance of 5 million km is just like one extra block on a 3 mile hike.

Prediction: (Yes or No) I (do or don’t) think changing distance causes the seasons.

 - This is their prediction.

**Part Two**

1. The correct tilt of the Earth is
2. A planet’s axis is \_an imaginary center line around which a planet spins\_.
3. No every planet is not tilted on their axes for example Venus is not tilted.
4. This shows direct rays:

Flashlight

and this shows indirect rays:

Flashlight

1. Venus doesn’t have seasons because \_Venus is not tilted on its axis which causes the Sun’s rays to strike the planet the same way all year long.
2. If it’s raining outside, Heather is describing weather because she is describing the conditions outside at one specific time.

Prediction: I believe the tilt of the Earth makes things warmer by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. I believe the tilt of the Earth makes things cooler by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 - Their predictions.

**Part Three**

1. The imaginary line that divides Earth in half is called the equator.
2. The United States is located in the Northern Hemisphere.
3. Australia is located in the Southern Hemipshere.
4. No all of Earth does not experience Summer at the same time.
5. When it’s summer in the Southern Hemisphere it is winter in the Northern Hemisphere.
6. A country located on Earth’s equator does not experience changing seasons because it receives direct rays from the sun all year long.

Prediction: It is winter in Australia when we are tilted towards the sun because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

- Student predictions

**Part Four**

* Prediction
* I believe that they will find Shep Sherman (guilty or not guilty) because\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Make sure to use evidence to support your choice.

- Student Predictions