

# CHAPTER 25 THE SOLAR SYSTEM

## SECTION 25 5 THE ORIGIN OF THE

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**What is the origin of the solar system?** Formation. Our solar system formed about 4.6 billion years ago from a dense cloud of interstellar gas and dust. The cloud collapsed, possibly due to the shockwave of a nearby exploding star, called a supernova. When this dust cloud collapsed, it formed a solar nebula – a spinning, swirling disk of material.

**What is the solar system question answer?** The Solar System is a system of a Sun and the objects that move around it. Our solar system consists of our star, the Sun and everything bound to it by gravity - the planets like the Earth, asteroids, meteors, comets and many more.

**What is the origin of the Earth nebular hypothesis?** The nebular hypothesis is the possible explanation for how the Sun, the Earth, and the rest of the solar system formed approximately 4.6 billion years ago out of the gravitational collapse of a large cloud of gas and dust left behind from previous star formation and star life cycles.

**What is the origin of the solar system from a cloud of gas and dust called?** The Sun and the planets formed together, 4.6 billion years ago, from a cloud of gas and dust called the solar nebula.

**What is the origin of the solar system quizlet?** The nebular theory states that the solar system formed from a rotating cloud of dust and gas. According to the nebular theory, the solar nebula is formed from what? According to the nebular theory, the solar nebula is formed from the material expelled by previous stars.

**Where does solar originate from?** Solar power works by converting energy from the sun into power. There are two forms of energy generated from the sun for our use – electricity and heat. Both are generated through the use of solar panels, which range in size from residential rooftops to 'solar farms' stretching over acres of rural land.

**What are 5 questions about the solar system?**

**Why is Pluto no longer a planet?** Answer. The International Astronomical Union (IAU) downgraded the status of Pluto to that of a dwarf planet because it did not meet the three criteria the IAU uses to define a full-sized planet. Essentially Pluto meets all the criteria except one—it “has not cleared its neighboring region of other objects.”

**What is planet short answer?** A planet is a celestial body that (a) is in orbit around the Sun, (b) has sufficient mass for its self-gravity to overcome rigid body forces so that it assumes a hydrostatic equilibrium (nearly round) shape, and (c) has cleared the neighborhood around its orbit.

**What is the origin of the earth?** The Earth formed over 4.6 billion years ago out of a mixture of dust and gas around the young sun. It grew larger thanks to countless collisions between dust particles, asteroids, and other growing planets, including one last giant impact that threw enough rock, gas, and dust into space to form the moon.

**What are the 7 theories of the origin of the earth?** There are famous seven early theories of the origin of the earth are “Gaseous Hypothesis of Kant”, “Jean and Jeffery's Tidal or gravitational theory”, “The Nebular Hypothesis of Laplace”, “Hoyle's Supernova Hypothesis”, “Schmidt's Interstellar Hypothesis”, “The Planetesimal Hypothesis of Chamberlin” and “Hoyle's ...

**What is the origin of the solar system according to the nebular and encounter theories?** The Nebular Theory explained that the Solar System originated from a nebula that was disrupted by a nearby supernova. The Encounter Theory suggests that the Solar System formed as a result of a near collision between a passing star and the Sun.

**What is it called when smaller objects stick together to form planets?** What is accretion, and how does it work for planet formation? Accretion is the process where small particles of dust, gas, and ice collect and stick together gradually. Gravity attracts these particles together, and they continue to accumulate to form a larger mass.

**What two things was the Earth started by?** The standard model for the formation of the Solar System (including the Earth) is the solar nebula hypothesis. In this model, the Solar System formed from a large, rotating cloud of interstellar dust and gas called the solar nebula.

**Which is an accurate description of a comet?** Comets are frozen leftovers from the formation of the solar system composed of dust, rock, and ices. They range from a few miles to tens of miles wide, but as they orbit closer to the Sun, they heat up and spew gases and dust into a glowing head that can be larger than a planet.

**What best explains the origins of the solar system?** The favoured paradigm for the origin of the solar system begins with the gravitational collapse of part of an interstellar cloud of gas and dust having an initial mass only 10–20 percent greater than the present mass of the Sun.

**What is the first scientific explanation of the origin of the solar system?** The first recorded use of the term "Solar System" dates from 1704. The current standard theory for Solar System formation, the nebular hypothesis, has fallen into and out of favour since its formulation by Emanuel Swedenborg, Immanuel Kant, and Pierre-Simon Laplace in the 18th century.

**What is the origin of the solar system Protoplanet hypothesis?** The protoplanet hypothesis suggests that a great cloud of gas and dust of at least 10,000 million kilometers in diameter rotated slowly in space about 5,000 million years ago. As time passed, the cloud shrank under the pull of its own gravitation or was made to collapse by the explosion of a passing star.

**What is the origin of the term solar?** From Late Middle English solar, from Latin *solaris*, from *sol* ("sun"), from Proto-Indo-European *\*sóh₂wl̥* ("sun").

**Where did our solar system originate?** The solar system as we know it began life as a vast, swirling cloud of gas and dust, twisting through the universe without direction or form. About 4.6 billion years ago, this gigantic cloud was transformed into our Sun.

**What is the origin of solar cells?** In 1883, American inventor Charles Fritts made the first solar cells from selenium. Though Fritts had hoped his solar cells might compete with Edison's coal-fired power plants, they were less than one percent efficient at converting sunlight to electricity and thus not very practical.

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**Who created the solar system in the Bible?** First of all we have from scripture the significant Old Testament verse of Isaiah 45:18, For this is what the LORD says—he who created the heavens, he is God; he who fashioned and made the earth, he founded it; he did not create it to be empty, but formed it to be inhabited . . .

**What are the five theories of the origin of the solar system?** These are the Nebular Hypothesis of Laplace, the Planetesimal Hypothesis of Chamberlin and Moulton, and the Capture Theory of See. Darwings theory of Tidal Friction is scarcely a distinct hypothesis, but is mentioned separately on account of its application to all of the others.

**What is the origin of the universe and solar system summary?** According to the big bang theory, the universe blinked violently into existence 13.77 billion years ago. The big bang is often described as an explosion, but imagining it as an enormous fireball isn't accurate. The big bang involved a sudden expansion of matter, energy, and space from a single point.

## **Where to Report Microsoft Community Scams**

Scams are a common occurrence in online communities, and the Microsoft Community is no exception. If you encounter a scam in the Microsoft Community, it is important to report it to administrators to protect yourself and others.

## How to Identify a Scam

Scammers often use fraudulent tactics to trick you into providing personal or financial information. Some common signs of a scam include:

- **Phishing emails or messages:** Scammers may send emails or messages that appear to be from Microsoft but actually contain malicious links or attachments.
- **Fake support requests:** Scammers may reach out to you with urgent requests for help, often claiming to be from Microsoft support.
- **Requests for personal information:** Scammers may ask you for your name, address, phone number, or other personal information.
- **Financial scams:** Scammers may try to trick you into sending them money or payment information.

## Where to Report Scams

If you believe you have encountered a scam in the Microsoft Community, there are several ways to report it:

- **Use the Report Abuse button:** Each post or message in the Microsoft Community has a "Report Abuse" button. Clicking this button will allow you to report the post or message to moderators for review.
- **Email Microsoft Support:** You can also report scams to Microsoft Support by emailing [support@microsoft.com](mailto:support@microsoft.com).
- **Contact the FBI's Internet Crime Complaint Center (IC3):** The IC3 is a government agency that investigates and prosecutes internet crimes. You can report scams to the IC3 online at [www.ic3.gov](http://www.ic3.gov).

## What Information to Provide

When reporting a scam, provide as much information as possible, including:

- The type of scam you encountered
- The date and time you encountered the scam

- The details of the scam, including any emails, messages, or links
- Any personal information or financial information that was compromised

## **What Happens After You Report a Scam**

After you report a scam, Microsoft will investigate the matter and take appropriate action, such as removing the fraudulent content or suspending the scammer's account. The FBI may also investigate the scam if it involves criminal activity.

## **Stealing the Mona Lisa: The Audacious Heist of Carson Morton**

### **Introduction**

In 1911, the world was stunned by the audacious theft of the Mona Lisa from the Louvre Museum in Paris. The mastermind behind the heist was a young Italian glazier named Vincenzo Peruggia. However, the involvement of an American named Carson Morton has also been a subject of speculation. Morton's alleged role in the theft has been the topic of numerous books and articles, casting doubt on the true identity of the thief.

### **Questions and Answers**

#### **Q: Who was Carson Morton?**

A: Carson Morton was an American who worked as an art handler at the Louvre Museum at the time of the Mona Lisa theft.

#### **Q: What was Morton's alleged role in the heist?**

A: Morton was suspected of providing Peruggia with access to the museum after hours and helping him remove the painting from its display case.

#### **Q: Is there evidence to support Morton's involvement?**

A: No conclusive evidence has been found to prove Morton's participation in the theft. However, circumstantial evidence and inconsistencies in Morton's alibi have raised suspicions.

#### **Q: Why was Morton never arrested or charged?**

A: The statute of limitations for prosecution had expired by the time Morton's involvement was suspected. Additionally, there was insufficient evidence to convict him beyond a reasonable doubt.

## **Conclusion**

Although the true extent of Carson Morton's role in the Mona Lisa theft remains a mystery, his alleged involvement has added to the intrigue surrounding this infamous heist. The unanswered questions and conflicting theories continue to fuel speculation and debate, leaving us forever wondering whether there was an American behind the theft of the most famous painting in the world.

## **Unit 1 B1 Practice Test: Teacher Sergio Learning Spot**

### **Questions and Answers**

- 1. What is the name of the boy in the story?** Answer: David
- 2. What is the name of the girl in the story?** Answer: Julia
- 3. Where do David and Julia meet?** Answer: At school
- 4. What does David's father do for a living?** Answer: Doctor
- 5. What does Julia want to be when she grows up?** Answer: Police officer
- 6. What is the main conflict in the story?** Answer: David is jealous of Julia's friendship with another boy named Carlos.
- 7. How does David resolve the conflict?** Answer: He talks to Julia about his feelings and they work it out.
- 8. What is the main theme of the story?** Answer: The importance of friendship and communication.
- 9. What is a simile used in the story?** Answer: "Julia's eyes sparkled like stars."
- 10. What is a metaphor used in the story?** Answer: "David's heart sank."

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