

SOLUTION OF NCERT BOOKS CLASS 7

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Chapter-wise NCERT Solutions for Class 7

The NCERT textbooks for Class 7 are a valuable resource for students, providing a comprehensive overview of key concepts in various subjects. To enhance their understanding and preparation, students can access detailed solutions for all the exercises and questions included in these textbooks.

Chapter 1: From the Earth to the Universe

- **Q: What is the main difference between a planet and a star?**
- **A:** Planets reflect light from stars, while stars emit their own light.
- **Q: Name the eight planets in our solar system.**
- **A:** Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune

Chapter 2: Inside Our Earth

- **Q: What is the composition of the Earth's atmosphere?**
- **A:** Nitrogen (78%), Oxygen (21%), Argon (0.9%), and other gases
- **Q: How does the Earth's magnetic field protect us?**

- **A:** It deflects harmful solar radiations, creating a protective shield around the planet.

Chapter 3: Life Processes

- **Q: What is the difference between autotrophs and heterotrophs?**
- **A:** Autotrophs make their own food, while heterotrophs consume other organisms for nourishment.
- **Q: Name the main organs involved in the digestive system of humans.**
- **A:** Mouth, esophagus, stomach, small intestine, large intestine, and rectum

Chapter 4: Heat

- **Q: Define thermal conductivity.**
- **A:** The ability of a material to transfer heat energy.
- **Q: Explain why metals are good conductors of heat.**
- **A:** Metals have loosely bound electrons that can easily carry heat energy.

Chapter 5: Acids, Bases, and Salts

- **Q: What is the pH scale, and what does it indicate?**
- **A:** The pH scale measures the acidity or alkalinity of a solution, ranging from 0 (most acidic) to 14 (most alkaline).

- **Q: Name two common acids and their formulas.**

- **A:** Hydrochloric acid (HCl) and sulfuric acid (H₂SO₄)

TGS 6x4 Rigid: A Comprehensive Guide

What is the TGS 6x4 Rigid?

The TGS 6x4 Rigid is a heavy-duty commercial vehicle manufactured by MAN Truck & Bus. It is designed for demanding off-road and construction applications, featuring a robust 6x4 drive configuration, a high payload capacity, and a rugged frame.

What are the Key Features of the TGS 6x4 Rigid?

- **Power and Performance:** Available with a range of powerful MAN engines, the TGS 6x4 Rigid delivers optimum performance and efficiency.
- **Driveline:** The 6x4 drive configuration provides excellent traction and stability in off-road conditions.
- **Frame:** The high-strength frame is engineered to withstand heavy loads and harsh terrain.
- **Payload Capacity:** The TGS 6x4 Rigid can carry up to 32 tons of payload, making it ideal for heavy-duty applications.
- **Comfort and Safety:** The advanced cab design provides a comfortable and safe working environment for drivers.

What are the Benefits of Using the TGS 6x4 Rigid?

- **Versatility:** With its rugged design and high payload capacity, the TGS 6x4 Rigid is suitable for a wide range of industries, including construction, mining, and transportation.
- **Reliability:** Backed by MAN's reputation for quality, the TGS 6x4 Rigid is built to withstand the toughest conditions and provide years of dependable service.

- **Efficiency:** The advanced powertrain and lightweight design contribute to improved fuel economy and reduced operating costs.
- **Safety:** The TGS 6x4 Rigid is equipped with state-of-the-art safety features, ensuring the well-being of drivers and other road users.
- **Customization:** MAN offers a wide range of customization options to tailor the TGS 6x4 Rigid to specific application requirements.

The Giver: Lois Lowry's Timeless Tale Explored

- **Question 1: What is the central premise of "The Giver"?**
- **Answer:** "The Giver" is set in a dystopian society where memories and emotions are controlled by the government. Jonas, the protagonist, is chosen to receive memories from the past and learns the true nature of their world.
- **Question 2: What is the significance of the Giver's role?**
- **Answer:** The Giver holds the memories of the past, which are forbidden to the rest of society. Jonas's training with the Giver awakens him to the beauty and pain of human experience, forcing him to question the rigid rules of his community.
- **Question 3: How does Jonas's journey challenge the society's values?**
- **Answer:** As Jonas learns about love, pain, and freedom, he realizes the emptiness of his society's existence. He begins to break away from the collective and make his own choices, highlighting the importance of individual thought and emotion.
- **Question 4: What is the role of the Ceremony of Twelve in the society?**

- **Answer:** The Ceremony of Twelve is an annual event where children transition into adulthood and receive their assigned roles. Jonas's experience at the ceremony forces him to confront the arbitrary nature of society's decisions and the lack of freedom it offers its citizens.
- **Question 5: What is the ultimate message of "The Giver"?**
- **Answer:** "The Giver" is a cautionary tale about the dangers of suppressing memory and individuality. It explores the importance of human connection, empathy, and the power of choice. The novel emphasizes that true happiness lies in embracing the full spectrum of human experience, both the joys and the sorrows.

The Power of Two Twitches: An Interview with Randi Reisfeld

By [Your Name]

Q: What is the "power of two twitches"?

A: Randi Reisfeld, an expert in the field of body language, has coined the term "power of two twitches" to describe a subtle yet powerful signal that can convey authority, confidence, and charisma. When someone twitches their eyebrows twice in rapid succession, it triggers an unconscious response in others, making them perceive the person as more credible and persuasive.

Q: How does the power of two twitches work?

A: Reisfeld theorizes that humans have an innate ability to recognize and respond to subtle facial expressions. When someone twitches their eyebrows twice, it mimics the way we naturally express surprise or skepticism. By subconsciously recognizing this signal, others are more likely to pay attention to what the speaker is saying, believing that there is something important or trustworthy about their message.

Q: What are some practical applications of the power of two twitches?

A: Reisfeld suggests that the power of two twitches can be harnessed in various situations, including:

- **Public speaking:** To convey confidence and authority when presenting or addressing an audience.
- **Negotiations:** To signal to the other party that you are serious about your proposal.
- **Job interviews:** To make a positive impression and convey competence and reliability.

Q: How can I incorporate the power of two twitches into my communication?

A: Reisfeld recommends practicing the eyebrow twitch in front of a mirror. The key is to make the twitches subtle and natural, avoiding any exaggerated or forced movements. Once you are comfortable with the technique, try incorporating it into your everyday interactions.

Q: Are there any risks associated with using the power of two twitches?

A: While the power of two twitches can be an effective communication tool, it is important to use it judiciously. Overusing or exaggerating the twitch can come across as disingenuous or manipulative. Additionally, some individuals may be sensitive to facial cues and may find the twitch distracting.

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