

NCERT Solutions for Class 6 Science Chapter 6: Detailed Solutions with Easy Explanations

NCERT Solutions for Class 6 Science Chapter 6 has been provided in an easy-to-understand way for CBSE Class 6 Science students. Students can find the complete solutions for Science Chapter 6 here!

NCERT Solutions for Class 6 Science Chapter 6: NCERT Solutions for Class 6 Science Chapter 6, Changes Around Us, are crafted by experts at PhysicsWallah. These solutions encompass responses to various questions, offering valuable insights into potential exam queries. The chapter delves into both reversible and irreversible changes, highlighting alterations caused by heating or mixing substances. Real-life examples and demonstrations within the chapter make learning engaging and straightforward.

The NCERT Solutions for Class 6 Science not only assist in exam readiness but also play a pivotal role in resolving doubts, crucial for advanced studies. The solutions, conveniently presented in a simple format, ensure easy accessibility and downloading. NCERT Solutions stand as a top-notch resource, empowering students with the necessary skills and knowledge. Covering pertinent study topics, these solutions pave the way for successful performance in examinations.

NCERT Solutions For Class 6 Science Chapter 6 Overview

The NCERT Solutions for Class 6 Science Chapter 6 provide a comprehensive overview of the topic "Changes Around Us." Developed by experts at PhysicsWallah, these solutions serve as a valuable resource for students preparing for their examinations. This chapter explores various aspects of changes, distinguishing between reversible and irreversible changes, and illustrating transformations caused by heating or mixing substances.

The solutions not only aid in exam preparation but also play a crucial role in addressing doubts, promoting a deeper understanding of the subject matter. Real-life examples and demonstrations featured in the chapter make the learning experience engaging and accessible.

Accessible in simple format, the NCERT Solutions offer easy availability and download options. They stand as an effective tool to strengthen students' skills and knowledge, covering essential study topics and contributing to overall academic success in Class 6 Science.

NCERT Solutions For Class 6 Science Chapter 6 Changes Around Us

NCERT Solutions for Class 6 Science Chapter 6 Changes Around Us are provided here with simple step-by-step explanations.

1. To walk through a waterlogged area, you usually shorten the length of your dress by folding it. Can this change be reversed?

Yes, by unfolding the dress, which was shortened by folding.

2. You accidentally dropped your favorite toy and broke it. This is a change you did not want to. Can this change be reversed?

No, since it is a broken toy.

3. Some changes are listed in the following table. For each change, write in the blank column, whether the change can be reversed or not.

Sl. No.	Change	Can Be Reversed Yes/No
1	The sawing of a piece of wood	
2	The melting of ice candy	
3	Dissolving sugar in water	
4	The cooking of food	
5	The ripening of a mango	
6	Souring of milk	

Ans:

Sl. No.	Change	Can Be Reversed Yes/No
1	The sawing of a piece of wood	No
2	The melting of ice candy	Yes
3	Dissolving sugar in water	Yes
4	The cooking of food	No

5	The ripening of a mango	No
6	Souring of milk	No

4. A drawing sheet changes when you draw a picture on it. Can you reverse this change?

Yes, we can erase the picture if it is drawn in pencil. If we use colors or sketches, we cannot erase them.

5. Give examples to explain the difference between changes that can or cannot be reversed.

Water at 0°C can be turned into solid i.e., ice and when it is put under room temperature it becomes liquid. While the burning of coal is irreversible.

6. A thick coating of Plaster of Paris (POP) is applied over the bandage on a fractured bone. It becomes hard on drying to keep the fractured bone immobilized. Can the change in POP be reversed?

No, the change in Plaster of Paris (POP) cannot be reversed.

7. A bag of cement lying in the open gets wet due to rain during the night. The next day, the sun shines brightly. Do you think the changes, which have occurred in the cement, could be reversed?

No, the change that occurred in the cement cannot be reversed.

Benefits of NCERT Solutions for Class 6 Science Chapter 6

NCERT Solutions for Class 6 Science Chapter 6 offer numerous benefits to students, aiding in their understanding and mastery of the subject matter. Here are some detailed benefits:

1. Concept Clarity: NCERT Solutions offer clear explanations of concepts covered in Chapter 6, enhancing the understanding of changes around us. Detailed solutions help students grasp the fundamentals, making it easier to apply knowledge to different scenarios.

2. Exam Preparation: The solutions provide comprehensive coverage of the chapter, aiding students in exam preparation. By studying the solutions, students become well-acquainted with the types of questions they might encounter in examinations.

3. Real-life Examples: NCERT Solutions include real-life examples and practical demonstrations related to reversible and irreversible changes. These examples make the learning experience more relatable and help students connect theoretical knowledge with everyday occurrences.

4. Application of Concepts: The solutions guide students in applying the concepts discussed in the chapter to various situations. Practical examples and activities enable students to see how these concepts manifest in the world around them.

5. Clarity on Reversible and Irreversible Changes: The solutions delve into the distinction between reversible and irreversible changes with practical examples. Students gain a clear understanding of when and how changes can be reversed or are irreversible.

6. Enhanced Problem-solving Skills: NCERT Solutions include activities and questions that encourage critical thinking and problem-solving skills. By working through these exercises, students develop their ability to analyze situations and apply appropriate solutions.

7. Self-assessment and Improvement: The solutions offer self-assessment opportunities through various questions and activities. Students can gauge their understanding, identify areas of improvement, and focus on reinforcing weak points.

8. Covers Different Learning Styles: NCERT Solutions cater to various learning styles with a mix of theoretical explanations, activities, and examples. This ensures that students with different preferences can find the resources that suit their learning needs.

9. Access to Additional Resources: While NCERT Solutions are comprehensive, they also guide students to additional resources for further exploration. This encourages independent learning and the pursuit of knowledge beyond the prescribed syllabus.

10. Ease of Accessibility: The solutions are presented in a user-friendly format and are readily available online for easy access and download. This convenience allows students to study at their own pace and refer to the solutions whenever needed.

How to Prepare With NCERT Solutions for Class 6 Science Chapter 12

Preparing with NCERT Solutions for Class 6 Science Chapter 6 can be a rewarding experience, helping students understand the concepts related to changes around us. Here's a detailed guide on how to effectively prepare using these solutions:

1. Familiarize Yourself with the Chapter: Begin by reading Chapter 6 thoroughly to understand the basics of changes around us. Pay attention to the different types of changes discussed, including reversible and irreversible changes.

2. Systematic Reading of NCERT Solutions: Start using NCERT Solutions for Class 6 Science Chapter 6, going through each topic and its corresponding solution systematically. Understand the step-by-step explanations provided in the solutions.

3. Active Participation: Engage actively with the solutions by attempting to solve the questions before referring to the provided answers. This approach enhances your problem-solving skills and ensures a more effective learning experience.

4. Practical Application of Concepts: Chapter 6 involves practical concepts related to changes in our surroundings. Try to apply these concepts to real-life scenarios. Conduct simple experiments or observations to witness reversible and irreversible changes.

5. Use of Real-life Examples: Understand the real-life examples and demonstrations provided in the solutions. Relate these examples to situations you encounter daily. This connection with practical scenarios enhances your understanding of the concepts.

6. Clarification of Doubts: If you encounter doubts or face difficulties in understanding certain concepts, revisit the relevant sections of the solutions. Seek additional explanations from teachers or classmates if needed.

7. Self-assessment and Review: Regularly assess your understanding by attempting the self-assessment questions and review exercises provided in the NCERT Solutions. Identify areas where you may need further clarification and revisit those sections for reinforcement.

8. Experiment with Activities: NCERT Solutions include various activities. Try to perform these activities to gain hands-on experience. Practical involvement reinforces theoretical concepts and makes learning more enjoyable.

9. Consistent Revision: Plan a schedule for consistent revision of the chapter to reinforce your learning. Regular revision ensures that the concepts stay fresh in your memory, making it easier to recall information during exams.

10. Utilize Additional Resources: While NCERT Solutions are comprehensive, you can supplement your learning with additional resources, such as reference books or online tutorials. Gain different perspectives to enhance your overall understanding.

11. Simulate Exam Conditions: As exams approach, simulate exam conditions by practicing with a time limit and adhering to the exam pattern. This practice helps you manage time effectively during the actual examination.

12. Reflect and Improve: Reflect on your performance in practice tests and identify areas for improvement. Focus on refining your problem-solving skills and addressing any weaknesses in your understanding of the chapter.

NCERT Solutions for Class 6 Science Chapter 6 Changes Around Us Topic-Wise Discussion

Here is a topic-wise discussion on each of them.

1. Introduction

The chapter starts with a general introduction explaining the abilities to change things in our surroundings. While complete control is not possible, humans can still influence some changes. It also raises questions like whether students observe such changes and if they can categorize them.

Changes Around Us Class 6 NCERT encourages students to carefully recognize these changes and take note of them.

2. Can all Changes Always be Reversed?

This part of the NCERT Solutions class 6 Science chapter 6 discusses the reversibility of changes.

The initial activity involves students blowing up a balloon and observing its shape change. When the air is released, the balloon returns to its original form, indicating a reversible change. There are two additional activities for students to perform at home to better understand this concept.

In contrast, considering the previous example, students can blow up a balloon, tie it with a string, and burst it with a sharp object. Now, this balloon cannot revert to its original shape, classifying this change as irreversible. This section of NCERT Class 6th Science Chapter 6 includes various activities and examples to help students grasp the concept better.

3. Could There be Other Ways to Bring a Change?

The second sub-topic of ch 6 Science class 6 explores different methods to induce change beyond those mentioned earlier. It begins with an explanation of how wooden handles are attached to various tools.

Typically, the iron blades on these tools have a ring smaller than the handle. To fit it into the handle, heat is used to expand it, making it slightly larger. When the rings cool down, they contract, fitting tightly.

Similar examples occur in our surroundings, and this change in size due to heat is called expansion and contraction. In the presence of rising heat, substances expand, and in its absence, they contract. If the temperature keeps increasing, substances will eventually melt and evaporate.

Note that the amount of expansion and contraction varies for different solids, liquids, and gasses. The NCERT Solutions for class 6th Science chapter 6 Changes Around Us cover various activities and examples to help students comprehend this concept further.

NCERT Solutions For Class 6 Science Chapter 6 FAQs

1. How things change class 6?

Things change in Class 6 due to various factors like heating, cooling, mixing, or other interactions, as discussed in the science curriculum.

2. What are the changes around us in science?

Changes around us in science include both reversible and irreversible changes, such as melting, freezing, boiling, and other transformations that affect substances in our surroundings.

3. What are 4 physical changes in science?

Four examples of physical changes in science include melting ice, boiling water, tearing paper, and dissolving salt in water, where the substances undergo a change in appearance but retain their original composition.

4. What are the differences between physical and chemical changes?

Physical changes involve alterations in appearance or state without changing the substance's composition, while chemical changes result in the formation of new substances with different properties.

5. What is reversible change in class 6?

In Class 6, a reversible change is a transformation that can be undone, like melting ice to water or freezing water to ice, where the substance retains its original properties after the change is reversed.