

NCERT Solutions for Class 6 English Chapter 4 – An Indian – American Woman in Space Kalpana Chawla

WORKING WITH THE TEXT

A. Answer the following questions.

Question 1. Where was Kalpana Chawla born? Why is she called an Indian – American? (3)

Answer: Kalpana Chawla hailed from Karnal, Haryana, where she was born. Following her marriage to an American citizen, she obtained naturalized American citizenship, earning her the title of Indian-American.

Question 2. When and why did she go to the U.S.? Who did she marry? (2, 3)

Answer: She pursued advanced studies in aeronautical engineering in the U.S. and later married flight instructor Jean-Pierre Harrison.

Question 3. How did she become an astronaut? What gave her the idea that she could be an astronaut? (3)

Answer: Applying for NASA's space shuttle program, she secured a position as a research scientist and was subsequently chosen for astronaut training in 1994.

Question 4. What abilities must an astronaut have, according to the journalist? (6)

Answer: The journalist emphasized that aspiring astronauts require extensive knowledge spanning various fields, including biology, astrophysics, and aeronautical engineering.

Question 5. Describe Kalpana Chawla's first mission in space. (5)

Answer: On her inaugural space mission, Kalpana Chawla spent a total of 15 days, 16 hours, and 34 minutes in space. During this time, she completed 252 orbits around the Earth, covering

a distance of 10.75 million kilometers. The crew included astronauts from Ukraine and Japan as well.

Question 6. What does Kalpana Chawla say about pursuing a dream? Do you agree with her that success is possible?

Answer: Kalpana says, "The path from dreams to success does exist. May you have the vision to find it, the courage to get onto it... Wishing you a great journey."

Yes, I do agree with her that with vision and courage, success is possible.

B. Read the newspaper report to find the following facts about Columbia's ill-fated voyage.

1. Date and place of lift-off: _____
2. Number of astronauts on board: _____
3. Number of days it stayed in space: _____
4. Number of experiments done by scientists: _____
5. Date of return journey: _____
6. Height at which it lost contact: _____

Answer:

1. Date and place of lift-off: 16 January 2003
2. Number of astronauts on board: Seven
3. Number of days it stayed in space: 15 days, 16 hours, and 34 minutes
4. Number of experiments done by scientists: 80
5. Date of return journey: 1 February 2003
6. Height at which it lost contact: 200000 feet

WORKING WITH LANGUAGE

A. Match the following:

unprecedented space tragedy	something that causes feelings of respect
-----------------------------	-------------------------------------------

	and wonder
certified flight instructor	having knowledge of a wide variety of subjects
space mission	nowadays, in these times
super specialisation	a set of jobs to be done in space by a group
encyclopedic knowledge	a person with the correct qualification to teach people to fly planes
awe-inspiring	a sad accident of a kind that has never happened before in space
in this age	great expertise in a limited field or a particular subject

Answer:

unprecedented space tragedy	a sad accident of a kind that has never happened before in space
certified flight instructor	a person with the correct qualification to teach people to fly planes
space mission	a set of jobs to be done in space by a group
super specialisation	great expertise in a limited field or a particular subject
encyclopedic knowledge	having knowledge of a wide variety of subjects
awe-inspiring	something that causes feelings of respect and wonder
in this age	nowadays, in these times

B. Use these phrases in sentences of your own, after finding out their meanings.

1. broke apart 4. lifted off 7. cheered along

2. streaked over 5. blast off 8. on board

3. spread across 6. went on 9. carry on

Answer:

1. broke apart - The old building finally broke apart after years of decay.
2. streaked over - The meteor streaked over the night sky, leaving a beautiful trail.
3. spread across - The news of the invention spread across the scientific community rapidly.
4. lifted off - The rocket lifted off smoothly, carrying a crew of astronauts.
5. blast off - The spacecraft prepared for blast off, the engines roaring with power.
6. went on - Despite the challenges, they went on with determination to achieve their goal.
7. cheered along - The crowd cheered along as the team scored the winning goal.
8. on board - The astronauts were on board the space station for a lengthy mission.
9. carry on - Despite the setbacks, they decided to carry on with their research project.

C. We add 'un-' to make opposites.

For example, true — untrue.

Add 'un-' to the words below to make their opposites. Then look up the meanings of the words you have formed in the dictionary.

1. identified _____

2. controlled _____

3. attended _____

4. successful _____

5. important _____

6. educated _____

7. interesting _____

8. qualified _____

9. trained _____

10. answerable _____

Answer:

1. identified - unidentified
2. controlled - uncontrolled
3. attended - unattended
4. successful - unsuccessful
5. important - unimportant
6. educated - uneducated
7. interesting - uninteresting
8. qualified - unqualified
9. trained - untrained
10. answerable - unanswerable

SPEAKING

Question 1. In her message to students of her college, Kalpana Chawla said, “May you have the vision to find the path from dreams to success... Wishing you a great journey.”

Form pairs. Use “May you...” and “I wish you/Wishing you” to wish your partner good luck and success in

- (i) a sports event,
- (ii) a quiz or a competition, and
- (iii) a test or examination.

Be sure to thank your partner when she/he wishes you in turn. You may also look up a telephone directory, or go to a post office, and get a list in English and Hindi of standard phrases that can be sent in greeting telegrams anywhere in India. Discuss which of these you might use,

and when. Compare the English and Hindi phrases for expressing good wishes. Do you know such phrases in any other language?

Answer:

- (i) I will you perform well in the sports event.
- (ii) I wish you ace the quiz competition!
- (iii) Wishing you all the best for your examination.

WRITING

A. Do you have a 'dream', or something you very much wish to do?

Write a paragraph saying what you want or wish to do. Then say (in another paragraph) how you think you can make your dream come true.

Answer:

I dream of becoming a successful scientist, discovering new things, and helping the world with my research. I'm passionate about understanding the natural world and finding solutions to problems that can make a positive impact on people's lives. Whether it's finding a cure for diseases or creating more sustainable technologies, I want to contribute to making the world a better place through scientific discoveries.

To make my dream come true, I will focus on my studies and excel in science and math subjects. I'll engage in extracurricular activities related to science, participate in science fairs, and seek out mentorship from teachers and professionals in the field. Reading books, watching educational videos, and staying updated with the latest scientific advancements will also be crucial. Additionally, I'll pursue higher education in a scientific discipline, work hard in my academic pursuits, collaborate with other aspiring scientists, and never give up, even when facing challenges. By staying dedicated and persistent, I believe I can achieve my dream of becoming a successful scientist and making meaningful contributions to the world.

B. Given below are some words that are spelt differently in British and American English. Fill in the blanks accordingly.

British	American
1. Colour	_____

2. _____	labor
3. _____	traveler
4. counsellor	_____
5. centre	_____
6. _____	theater
7. _____	organize
8. realise	_____
9. _____	defense
10. offence	_____

Answer:

British	American
1. Colour	color
2. labour	labor
3. traveller	traveler
4. counsellor	counselor
5. centre	center
6. theatre	theater
7. organise	organize
8. realise	realize
9. defence	defense
10. offence	offense