

**CLASS NOTES-ANSWERS****Working with the text****A. Answer the following questions.**

1. Where was Kalpana Chawla born? Why is she called an Indian - American?

**Answer:** Kalpana Chawla was born in Karnal, a district in Haryana, India. She was called an Indian-American because she became a naturalised US citizen after marrying an American flight instructor named Jean-Pierre Harrison.

2. When and why did she go to the U.S.? Who did she marry?

**Answer:** She went to the U.S. for her Master's degree after she completed her bachelor's degree in aeronautical engineering. She married a flight instructor named Jean-Pierre Harrison who was an American.

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

**Answer:** Kalpana liked challenging her limits. She was licensed to fly single and multi-engine land airplanes, single-engine seaplanes and gliders. She then applied to NASA's space shuttle program. She was first hired as a research scientist at NASA. Then in 1994 she was selected by NASA for training as an astronaut.

4. What abilities must an astronaut have, according to the journalist?

**Answer:** According to the journalist, an astronaut needs to know everything about biology to astrophysics to aeronautical engineering.



5. Describe Kalpana Chawla's first mission in space.

**Answer:** The first space mission in the shuttle named Columbia, was 15 days, 16 hours and 34 minutes long. She went around 252 times round the earth, almost travelling a distance of 10.45 million kilometres. The crew had a Japanese and a Ukrainian astronaut. Many experiments were performed by the crew like pollinating plants to observe growth of food in space, tests for making stronger metals and faster computer chips.

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

**Answer:** Kalpana Chawla says that "the path from dreams to success do exist. May you have the vision to find it, the courage to get onto it ..." Yes, I do agree with what she said. If we dare to dream, we must have the courage and determination to walk on the thorny paths too.

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

1. Date and place of lift off \_\_\_\_.

**Answer:** 16th January, 2003; Kennedy Space Center, Florida.

2. Number of astronauts on board \_\_\_\_.

**Answer:** 7

3. Number of days it stayed in space \_\_\_\_.

**Answer:** 16 Days.

4. Number of experiments done by scientists \_\_\_\_.



Answer: 80 experiments.

5. Date of return journey \_\_\_\_.

Answer: 1st February, 2003.

6. Height at which it lost contact \_\_\_\_.

Answer: 2,00,000 feet.

Working with Language

**A. Match the following.**

1. unprecedented space tragedy	something that causes feelings of respect and wonder
2. certified flight instructor	having knowledge of a wide variety of subjects
3. space mission	nowadays, in these times
4. super specialisation	a set of jobs to be done in space by a group
5. encyclopedic knowledge	a person with the correct qualification to teach people to fly planes
6. awe-inspiring	a sad accident of a kind that has never happened before in space



7. in this age	great expertise in a limited field or a particular subject
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## Answer:

1. unprecedented space tragedy	a sad accident of a kind that has never happened before in space
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4. super specialisation	great expertise in a limited field or a particular subject
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7. in this age	nowadays, in these times

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

1. Broke Apart



**Answer:** broke apart- disassemble; Both the partners broke apart over a small financial issue.

2. Streaked Over

**Answer:** streaked over- to pass by quickly; The smoke left by the rocket streaked over into the sky.

3. Spread Across

**Answer:** spread across- to extend something wide; Dark clouds spread across the horizon as soon as we started for the picnic.

4. Lifted Off

**Answer:** lifted off- to rise straight from the ground; The army was deployed with helicopters and they did an excellent job as they lifted off the stranded people.

5. Blast Off

**Answer:** blast off- to leave the ground; The spacecraft blasted off at 4.30 pm and soon disappeared in the sky.

6. Went On

**Answer:** went on- (past form of go on); She was hesitant at the beginning of the opening speech but later she went on in a flow.

7. Cheered Along

**Answer:** cheered along- encourage and support; All the family members and relatives cheered along the boxer for the next match.



8. On Board

**Answer:** on board- on a plane or aircraft; All the members on board were requested to fasten their seat belts.

9. Carry On

**Answer:** carry on- to continue to do something; The teacher asked the students to carry on with their assignments in the substitution class.

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

**Answer:** Unidentified; something that cannot be recognised.

2. Controlled

**Answer:** Uncontrolled ; which cannot be controlled.

3. Attended

**Answer:** Unattended; not noticed.

4. Successful

**Answer:** Unsuccessful; failure in sometime.

5. Important

**Answer:** Unimportant; something which is of less importance.

6. Interesting



### Chapter 4: An Indian-American Woman in Space-Kalpana Chawla

**Answer:** Uninteresting; boring.

7. Qualified

**Answer:** Unqualified; not officially recognised.

8. Trained

**Answer:** Untrained; not having particular skills.

9. answerable

**Answer:** Unanswerable; unable to be answered.

### Speaking

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:**



English: Wish you great success in your exams.

Hindi: "Mai aapki safalta ki kamna karta hu."

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.

Ans: Yes, I do have a dream to become a great cricketer one day. I can make my dream true by regular and consistent practices. I have to be very honest towards my goals. I will have to keep my spirits high no matter how adverse the situation is.

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

