

ADVANCED WORD LIST-1 (APR 10, 2023)

1. lift-off (noun) – a vertical take off (of a rocket/helicopter/spaceship).
2. Space age (noun) - the period/time/age beginning with the first space travel. On October 4, 1957, the Soviet Union opened the Space Age with the launch of Sputnik, the world's first artificial satellite.
3. modest (adjective) - average, medium, ordinary.
4. tap (verb) – make use of, put to use, use, utilize.
5. cosmonaut (noun) – an astronaut in the space program of Russia or the former Soviet Union.
6. domain (noun) – area of activity, sphere of activity; realm, territory.
7. the Cold War (noun) – The Cold War was a state of political and military tension after World War II between powers in the Western Bloc (the United States and a group of countries) and powers in the Eastern Bloc (the Soviet Union and a group of countries).
8. erstwhile (adjective) – old, previous, former, then.
9. actor (noun) – participant in an area of activity.
10. Indian Space Research Organisation (ISRO) (noun) – Indian Space Research Organisation, formed in 1969, superseded the erstwhile Indian National Committee for Space Research (INCOSPAR). Vikram Sarabhai, having identified the role and importance of space technology in a Nation's development, provided ISRO with the necessary direction to function as an agent of development. ISRO then embarked on its mission to provide the Nation space-based services and to develop the technologies to achieve the same independently.
11. come a long way (phrase) - to become very successful; to make considerable progress.
12. Satellite Instructional Television Experiment (SITE) (noun) - it was an experimental satellite communications project launched in India in 1975, designed jointly by NASA and ISRO. The project made available informational television programmes to rural India. The main objectives of the experiment were to educate the financially backward and academically illiterate people of India on various issues via satellite broadcasting, and also to help India gain technical experience in the field of satellite communications.
13. outreach (noun) – the level of reaching out/activity/effort; involvement.
14. The Indian National Satellite System (INSAT) (noun) - a series of multipurpose Geo-stationary satellites launched by ISRO to satisfy the telecommunications, broadcasting, meteorology, and search and rescue needs of India. Commissioned in 1983, INSAT is the largest domestic communication system in the Asia Pacific Region.

Note:

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15. **Geosynchronous orbit** (noun) – Geosynchronous orbit is a repeating path in which the satellite is always in the same area of the sky in respect to the rotating Earth.
16. **Geosynchronous Satellite (GSAT)** (noun) - these are India's indigenously developed communications satellites, used for digital audio, data and video broadcasting.
17. **backbone** (noun) – mainstay, cornerstone, foundation, chief support, buttress, pillar.
18. **infrastructure** (noun) – the basic physical or organisational structure or framework that a country or organization needs in order to function properly. For a whole nation, it includes all the physical systems such as buildings, roads & railways networks, utilities, etc.
19. **watershed** (noun) – also called a drainage basin or catchment; It's a land area that channels/directs rainfall and snowmelt to creeks, streams, and rivers.
20. **Oceansat** (noun) - a series of earth observation satellites built, launched, and operated by ISRO, and dedicated to oceanography and atmospheric studies.
21. **Cartosat-2** (noun) – it is an Earth observation satellite in a sun-synchronous orbit and the second of the Cartosat series of satellites and it was built, launched and maintained by the Indian Space Research Organisation (Courtesy: Wikipedia).
22. **Cartosat** (noun) - a series of Indian optical earth observation satellites built and operated by the Indian Space Research Organisation (ISRO).
23. **GPS Aided GEO Augmented Navigation (GAGAN)** (noun) - It is a step by the Indian Government towards initial Satellite-based Navigation Services in India. It is a system to improve the accuracy of a global navigation satellite system (GNSS) receiver by providing reference signals. it is a joint project between ISRO and the Airports Authority of India, to augment Global Positioning System (GPS) coverage of the region, to improve air traffic management over Indian airspace.
24. **Airports Authority of India** (noun) - a public sector enterprise under the ownership of the Ministry of Civil Aviation, Government of India. It is responsible for creating, upgrading, maintaining, and managing civil aviation infrastructure in India.
25. **augment** (verb) – upgrade, boost, improve.
26. **Global Positioning System (GPS)** (noun) – GPS is a (navigation) system. It's made up of three parts: satellites, ground stations, and receivers. The technology can pinpoint longitude, latitude, ground speed, and course direction of the target somewhere in the world.

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27. [Navigation with Indian Constellation \(NavIC\)](#) (noun) - To meet the positioning, navigation and timing requirements of the nation, ISRO has established a regional navigation satellite system called Navigation with Indian Constellation (NavIC). NavIC was erstwhile known as Indian Regional Navigation Satellite System (IRNSS).
28. [Satellite Launch Vehicle \(SLV\)](#) (noun) - a small-lift launch vehicle project started by the Indian Space Research Organisation to develop the technology needed to launch satellites.
29. [Polar Satellite Launch Vehicle \(PSLV\)](#) (noun) – Polar Satellite Launch Vehicle (PSLV) is the third generation launch vehicle of India. It is the first Indian launch vehicle to be equipped with liquid stages. After its first successful launch in October 1994, PSLV emerged as the reliable and versatile workhorse launch vehicle of India with 53 launches so far. To date, the vehicle has launched 48 Indian satellites (till 2017) and 342 satellites for customers from 34 countries.
30. [workhorse](#) (noun) – a machine which works dependably for a long period of time.
31. [Direct-to-Home \(DTH\)](#) (noun) – a digital satellite service that provides television viewing services directly to subscribers through satellite transmission anywhere in the country.
32. [transponder](#) (noun) - radio or radar transceiver that transmits some signal in response to receiving a predetermined signal.
33. [lockstep](#) (noun) – in agreement with someone mindlessly and has exactly the same ideas/opinions that someone else has, often without questioning them in any way.
34. [telephony](#) (noun) – the operation/use of telephones.
35. [downstream](#) (adjective) – relating to the activities such as satellite services and associated ground segment.
36. [upstream](#) (adjective) – relating to the activities of satellite manufacturing and launch services.
37. [United Nations Office for Outer Space Affairs \(UNOOSA\)](#) (noun) - it works to promote international cooperation in the peaceful use and exploration of space, and in the utilisation of space science and technology for sustainable economic and social development.
38. [pick up](#) (phrasal verb) – get/become better; improve.
39. [Starlink](#) (noun) - a satellite internet constellation operated by SpaceX, providing satellite Internet access coverage to over 50 countries.
40. [constellation](#) (noun) – a group of (artificial) satellites working together as a system.

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41. **OneWeb** (noun) - a communications company that aims to build broadband satellite Internet services. London-based company OneWeb has launched the final set of satellites it needs to deliver a broadband internet connection anywhere on Earth.
42. **project kuiper** (noun) - an initiative to increase global broadband access through a constellation of 3,236 satellites in low Earth orbit (LEO). Amazon's initiative to provide fast, affordable broadband to communities around the world that are currently unserved or underserved by traditional internet and communications options.
43. **low-latency** (adjective) - the ability of a computing system or network to provide responses with minimal latency (delay).
44. **Chandrayaan 2** (noun) – Chandrayaan-2 is the second lunar exploration mission developed by the Indian Space Research Organisation (ISRO), after Chandrayaan-1. It consists of a lunar orbiter, and also included the Vikram lander, and the Pragyan lunar rover, all of which were developed in India. The spacecraft was launched on 22 July 2019. However, the lander crashed when it deviated from its intended trajectory while attempting to land on 6 September 2019. ISRO will re-attempt a landing in 2023 with Chandrayaan-3.
45. **Chandrayaan 1** (noun) – Chandrayaan-1 was the first Indian lunar probe under the Chandrayaan program. It was launched by the Indian Space Research Organisation in October 2008. The mission was a major boost to India’s space program, as India researched and developed its own technology in order to explore the Moon.
46. **Mars Orbiter Mission (MOM) or Mangalyaan** (noun) – India’s Mars Orbiter Mission (MOM)—or Mangalyaan (Hindi for “Mars Craft”)—is the country’s first mission to Mars (the Red Planet). The mission aims to test key technologies for interplanetary exploration and to use its five science instruments to study the Martian surface and atmosphere from orbit.
47. **Gaganyaan mission** (noun) – ISRO’s human spaceflight programme which will carry humans to space. The objective of Gaganyaan is to carry a crew of three to Low Earth Orbit (LEO), perform a set of predefined activities in space, and return them safely to a predefined destination on earth.
48. **content** (adjective) - satisfied.
49. **incubator** (noun) – supporter, promoter, champion.
50. **steer** (verb) – guide, conduct, direct/lead.

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51. to be fair (phrase) - used for making your criticism less strong.
52. mull over (phrasal verb) - contemplate, ponder, consider, study.
53. Space Activities Bill (noun) - it is aimed at regulating and promoting private participation in India's Space sector.
54. lapse (verb) - expire, become invalid.
55. small satellite launch vehicle (SSLV) (noun) – Small Satellite Launch Vehicle (SSLV) is a 3 stage Launch Vehicle configured with three Solid Propulsion Stages and liquid propulsion based Velocity Trimming Module (VTM) as a terminal stage. SSLV is 2m in diameter and 34m in length with lift off weight of ~120 tonnes. SSLV is capable of launching ~500kg satellite in 500km planar orbit from SDSC/SHAR. The key features of SSLV are Low cost, with low turn-around time, flexibility in accommodating multiple satellites, Launch on demand feasibility, minimal launch infrastructure requirements, etc.
56. NewSpace India Limited (NSIL) (noun) – NewSpace India Limited (NSIL), incorporated on 6 March 2019 (under the Companies Act, 2013) is a wholly owned Government of India company, under the administrative control of Department of Space (DOS). NSIL is the commercial arm of Indian Space Research Organisation (ISRO) with the primary responsibility of enabling Indian industries to take up high technology space related activities and is also responsible for promotion and commercial exploitation of the products and services emanating from the Indian space programme.
57. Indian National Space Promotion and Authorization Center (IN-SPACe) (noun) – a channel/method through which non-governmental private enterprises can carry out space activities.
58. Indian Space Association (ISPA) (noun) - it is the apex industry body created to be the collective voice of the Indian space industry. ISPA is an apex, non-profit industry body exclusively working towards the successful exploration, collaboration, and development of the private and public Space Industry in India.
59. satcom (noun) - Satellite Communications.
60. foreign direct investment (FDI) (noun) – Investment from one country into another (normally by companies rather than governments) that involves establishing operations or acquiring tangible assets, including stakes in other businesses.
61. venture capital fund (noun) – a sum of money investors commit for investment in early-stage companies.
62. window of opportunity (phrase) – lucky chance, good time, golden opportunity.

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