

Use this list of discoveries, inventions, and scientific achievements to help complete your National Science Appreciation Day activities. What other innovations would you add?



Airbags



Air Conditioning



Antibiotics



Antiviral Drugs



Blood Transfusions



Bifurcated Needle



CPR



Dialysis



Disaster Warning Systems



Electricity



Food Preservation



Insulin



Organ Transplants



Pasteurization



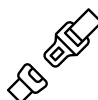
Radiology



Renewable Energy



Satellites



Seatbelts



Sewage Systems



Smoke Detectors



Stem Cell Research



Sunscreen



Synthetic Fertilizer



Toilets



Vaccines



Water Chlorination and Filtration

Use this list of doctors, scientists, and researchers to help complete your National Science Appreciation Day activities. What other innovators would you add?

- **Jonas Salk** (1914–1995) – Developed the first effective polio vaccine.
- **Edward Jenner** (1749–1823) – Created the smallpox vaccine.
- **Louis Pasteur** (1822–1895) – Developed pasteurization and vaccines for rabies and anthrax.
- **Alexander Fleming** (1881–1955) – Discovered penicillin, the first antibiotic.
- **Tu Youyou** (born 1930) – Discovered artemisinin, a key treatment for malaria.
- **Ignaz Semmelweis** (1818–1865) – Advocated for handwashing in hospitals.
- **Patricia Bath** (1942–2019) – Developed laser cataract surgery.
- **John Snow** (1813–1858) – Proved that cholera spreads through contaminated water.
- **Rosalind Franklin** (1920–1958) – Provided critical X-ray images leading to the discovery of DNA's structure.
- **Alice Augusta Ball** (1892–1916) – Developed the first effective treatment for leprosy.
- **Fritz Haber** (1868–1934) – Co-invented the Haber-Bosch process, enabling mass production of fertilizers and reducing global famine.
- **José Celestino Mutis** (1732–1808) – Pioneered studies on quinine, which became the first effective malaria treatment.
- **Garrett Morgan** (1877–1963) – Invented the gas mask.
- **Marie Curie** (1867–1934) – Pioneered radiation therapy, which is now used to treat cancer.
- **Benjamin Rubin** (1917–2010) – Invented the bifurcated needle used in the campaign to eradicate smallpox.
- **Joseph Lister** (1827–1912) – Developed the use of carbolic acid for sterilizing surgical instruments and wounds.
- **Nils Bohlin** (1920–2002) – Invented the three-point seatbelt.
- **Joseph Bazalgette** (1819–1891) – Designed London's modern sewage system.
- **Duane Pearsall** (1922–2010) – Created the first modern battery-powered smoke detector for use in homes.
- **Willis Carrier** (1876–1950) – Invented modern air conditioning.
- **Karl Landsteiner** (1868–1943) – Discovered blood types, making safe blood transfusions a routine medical procedure.
- **Mario Molina** (1943–2020) – Discovered that chlorofluorocarbons were destroying the Earth's ozone layer.
- **Carlos Finlay** (1833–1915) – Proved that mosquitoes transmit yellow fever, leading to disease prevention efforts.

Match the scientist on the left with the discovery or invention they are associated with on the right.

- | | |
|-------------------------------|--------------------------------|
| • 1. _____ Karl Landsteiner | A. Sterilization |
| • 2. _____ Tu YouYou | B. Air Conditioning |
| • 3. _____ Joseph Lister | C. Radiation |
| • 4. _____ Nils Bohlin | D. Smallpox |
| • 5. _____ Edward Jenner | E. Malaria |
| • 6. _____ Willis Carrier | F. Seatbelt |
| • 7. _____ Louis Pasteur | G. Blood Type |
| • 8. _____ Duane Pearsall | H. Modern Sewage System |
| • 9. _____ Alexander Fleming | I. Polio |
| • 10. _____ Mario Molina | J. Handwashing |
| • 11. _____ Marie Curie | K. Penicillin |
| • 12. _____ Jonas Salk | L. Yellow Fever |
| • 13. _____ Joseph Bazalgette | M. Ozone Layer |
| • 14. _____ Carlos Finlay | N. Rabies |
| • 15. _____ Ignaz Semmelweis | O. Smoke Detector |

Would You Rather...

- | | | |
|---|-----------|---|
| <input type="radio"/> Discover a cure for cancer | OR | Invent a way to stop aging <input type="radio"/> |
| <input type="radio"/> Be the first person to receive an experimental medicine | OR | Wait until a medicine has been fully tested <input type="radio"/> |
| <input type="radio"/> Have unlimited fresh water but no internet | OR | Have unlimited internet but a global water shortage <input type="radio"/> |
| <input type="radio"/> Live in a world without anesthesia | OR | Live in a world without antibiotics <input type="radio"/> |
| <input type="radio"/> Be able to regrow limbs | OR | Be immune to all diseases <input type="radio"/> |
| <input type="radio"/> Have solar panels that give you unlimited electricity | OR | Have a water purifier that gives you unlimited drinking water <input type="radio"/> |
| <input type="radio"/> Receive an organ transplant from a 3D-printed organ | OR | Receive an organ transplant from a genetically modified pig <input type="radio"/> |
| <input type="radio"/> Be able to grow plants anywhere without soil | OR | Create water from thin air <input type="radio"/> |
| <input type="radio"/> Have the ability to remove all plastic from the environment | OR | Invent an indestructible, biodegradable material to replace plastic <input type="radio"/> |



NATIONAL SCIENCE APPRECIATION DAY

Word Search Puzzle

R S H E E Y I Y O L V R D A S
T H E O R Y C O O T E O I I O
O N E O I T I T A S H R N T A
E I A M L R V S E T H N T S H
D O D E M O V A E I O E H Y T
I I I A T E R M A V L E P Y N
S I S D U C O I A B E O E A E
N O C A H N N T A E T I V I M
O R O T T Q I I I H U I L O E
V T V A U O R E E N C A E I R
O O E I N A A S E N S Q H A U
A D R A V D I H N I Y V O B S
N Y Y S E S Y E T T Q A S T A
S I S Y L A N A I A D H C N E
B E R O B S E R V A T I O N M

DISCOVERY
RESEARCH
INQUIRY

HYPOTHESIS
THEORY
ANALYSIS

INNOVATION
METHOD
VARIABLE

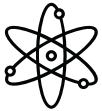
OBSERVATION
DATA
MEASUREMENT



NATIONAL SCIENCE APPRECIATION DAY

Use these cards to share the ways science, technology, and innovation have made a positive impact on your life.

I'm thankful for science because...



I'm thankful for science because...



I'm thankful for science because...



I'm thankful for science because...



I'm thankful for science because...



I'm thankful for science because...

