

# DISCOVERY SCIENCE GRADE 5 Document

**Discovery science grade 5** is an exciting and foundational educational program designed to introduce young learners to the fascinating world of scientific inquiry and exploration. At this stage, students are encouraged to develop curiosity, critical thinking, and a basic understanding of scientific principles that will serve as a foundation for future studies. This article explores the key aspects of discovery science for grade 5 students, including its objectives, core topics, teaching strategies, and resources to enhance the learning experience.

## Understanding Discovery Science for Grade 5

### What is Discovery Science?

Discovery science is a hands-on, inquiry-based approach to learning science. Instead of passively memorizing facts, students are encouraged to explore, observe, ask questions, and conduct experiments. The goal is to foster curiosity and help students understand the scientific method?posing questions, forming hypotheses, conducting experiments, analyzing data, and drawing conclusions.

### The Importance of Discovery Science in Grade 5

At the fifth-grade level, discovery science plays a crucial role in:

- Developing critical thinking skills
- Encouraging curiosity about the natural world
- Building a strong foundation in scientific concepts
- Enhancing problem-solving abilities
- Preparing students for more advanced science topics in middle school

Through engaging activities and experiments, students learn to appreciate the scientific process and understand that science is a dynamic way of exploring the world.

## Core Topics Covered in Discovery Science Grade 5

Discovery science curricula for grade 5 typically encompass a broad range of topics that introduce students to fundamental scientific concepts across various disciplines. These include:

### 1. Life Science

Life science explores living organisms and their environments. Key topics include:

- Plant and animal adaptations
- Food chains and ecosystems
- Cell structure and functions
- Human body systems (e.g., circulatory, respiratory)

## **2. Earth and Space Science**

Understanding our planet and the universe is vital. Topics include:

- Weather patterns and climate
- Earth's landforms and rocks
- Solar system and planets
- Rotation and revolution of Earth

## **3. Physical Science**

Physical science introduces students to matter and energy. Main topics include:

- States of matter (solid, liquid, gas)
- Properties of materials
- Basic principles of motion and forces
- Simple machines and energy transfer

## **Effective Teaching Strategies for Discovery Science in Grade 5**

To maximize engagement and understanding, teachers can incorporate various strategies tailored to young learners:

### **Hands-on Experiments and Activities**

Practical activities help students connect theory with real-world applications. For example:

- Growing plants to observe life cycles
- Building simple machines like pulleys or levers
- Conducting weather observations

- Exploring soil and rock samples

## **Inquiry-Based Learning**

Encourage students to ask questions and design their own experiments. This approach promotes independence and critical thinking.

## **Use of Visual Aids and Models**

Visual tools like diagrams, models, and videos make abstract concepts more tangible. For example:

- Modeling the solar system
- Using charts to illustrate food chains
- Animations showing the water cycle

## **Integration of Technology**

Interactive simulations and educational software can enhance understanding and engagement.

## **Resources for Discovery Science Grade 5**

A variety of resources are available to support teachers and students in discovery science education:

### **Textbooks and Workbooks**

Curriculum-aligned textbooks that include activities, experiments, and review questions.

### **Online Platforms and Apps**

Interactive websites and apps such as:

- NASA's Space Place
- National Geographic Kids
- PhET Interactive Simulations

### **Science Kits and Materials**

Hands-on kits with materials for conducting experiments safely at school or home.

## Educational Videos and Documentaries

Visual media that explain complex concepts in an engaging way.

## Benefits of Discovery Science for Grade 5 Students

Engaging in discovery science offers numerous benefits, including:

- Enhancing understanding of scientific concepts through experiential learning
- Fostering curiosity and a love for science
- Developing critical thinking and problem-solving skills
- Encouraging teamwork and collaboration during experiments
- Preparing students for science careers and advanced studies

## Challenges and Tips for Effective Discovery Science Education

While discovery science is highly beneficial, educators may face challenges such as limited resources or safety concerns. Here are some tips:

- Start with simple, safe experiments that do not require complex equipment
- Ensure safety protocols are followed during all activities
- Foster an environment where questions and exploration are encouraged
- Utilize free or low-cost online resources to supplement learning
- Encourage reflection and discussion after experiments to reinforce learning

## Conclusion: Inspiring Future Scientists

Discovery science grade 5 is more than just a curriculum; it is an opportunity to inspire young minds to explore the natural world and develop a lifelong passion for science. By combining hands-on activities, inquiry-based learning, and engaging resources, educators can create a stimulating environment where students learn to think critically, solve problems, and appreciate the wonders of science. As children grow and their curiosity expands, the foundation built during these formative years will serve as a stepping stone toward future scientific pursuits and a deeper understanding of the universe around them.

Discovery Science Grade 5: An In-Depth Exploration of Its Role in Shaping Young Scientific Minds

In the realm of elementary education, the transition from basic factual learning to engaging, inquiry-based exploration marks a pivotal stage in a child's academic journey. Among the various

science curricula designed for Grade 5 students, Discovery Science Grade 5 stands out as a comprehensive approach that emphasizes active learning, critical thinking, and real-world application of scientific concepts. This article delves into the essence, structure, benefits, challenges, and future of Discovery Science at the fifth-grade level, offering insights into why it is an invaluable component of early science education.

## Understanding Discovery Science Grade 5

Discovery Science Grade 5 is an educational framework that encourages students to learn science through exploration, experimentation, and inquiry rather than passive memorization. It aligns with the broader goals of fostering scientific literacy, curiosity, and a lifelong love for learning.

### The Core Philosophy

At its heart, Discovery Science emphasizes:

- Active Engagement: Students participate in hands-on activities that foster experiential learning.
- Inquiry-Based Learning: Learners pose questions, develop hypotheses, conduct experiments, and analyze results.
- Constructivist Approach: Students build understanding through active involvement, connecting new knowledge with prior experiences.
- Real-World Relevance: Lessons are designed to relate science concepts to everyday life, increasing relevance and motivation.

This approach contrasts with traditional rote learning, encouraging students to think critically and develop scientific skills early on.

### The Curriculum Structure

Typically, Discovery Science Grade 5 curriculum encompasses key scientific domains such as:

- Life Science: Ecosystems, plants, animals, human body systems.
- Physical Science: Forces, energy, matter, and simple machines.
- Earth and Space Science: Weather, planets, Earth's resources.
- Environmental Science: Conservation, pollution, sustainability.

The curriculum is designed to be flexible, allowing educators to tailor activities based on student interests and local contexts.

## Benefits of Discovery Science in Grade 5

Implementing Discovery Science at this critical stage offers numerous advantages:

### 1. Enhances Critical Thinking and Problem-Solving Skills

Students learn to formulate hypotheses, design experiments, and interpret data. For example, a lesson on plant growth might involve testing different light sources, encouraging students to analyze results and draw conclusions.

### 2. Fosters Curiosity and Enthusiasm for Science

Hands-on experiments and real-world applications ignite curiosity, making science engaging and fun. Kids are more likely to pursue further science learning when they experience success and discovery firsthand.

### 3. Develops Scientific Literacy

By understanding scientific processes and reasoning, students become better equipped to understand news, technology, and environmental issues.

### 4. Promotes Collaborative Learning

Many activities require teamwork, communication, and sharing ideas, vital skills for future academic and professional success.

### 5. Prepares for Future Academic Pursuits

Early exposure to inquiry-based science lays a strong foundation for high school science courses and beyond.

## Implementation Strategies and Pedagogical Approaches

Successfully integrating Discovery Science in the Grade 5 classroom depends on effective strategies and teaching methods.

### Hands-On Experiments and Activities

Sample activities include:

- Building simple machines with household items.
- Conducting water filtration projects.
- Observing plant growth under different conditions.
- Simulating weather patterns with models.

These activities are designed to be safe, engaging, and educational.

## **Use of Technology and Multimedia**

Digital tools, virtual labs, and interactive simulations enhance understanding and provide diverse learning modalities.

## **Inquiry-Based Projects**

Long-term projects such as creating a mini-ecosystem, tracking local weather, or researching local wildlife promote sustained inquiry and deeper understanding.

## **Assessment Methods**

Assessment in Discovery Science is formative, focusing on process and understanding rather than just final answers. Methods include:

- Observation checklists.
- Student journals and reflection logs.
- Presentations and group discussions.
- Performance-based tasks.

## **Challenges and Limitations**

Despite its many benefits, Discovery Science Grade 5 faces certain challenges:

### **Resource Constraints**

Hands-on experiments require materials, lab equipment, and sometimes technology, which may not be available in all schools.

### **Teacher Preparedness**

Effective inquiry-based teaching demands specialized training. Teachers need to be comfortable facilitating open-ended activities and managing diverse student inquiries.

## Curriculum Rigidities

Standardized testing pressures can limit flexibility, pushing teachers toward rote instruction rather than inquiry.

## Assessment Difficulties

Measuring inquiry skills and understanding process-oriented learning can be complex compared to traditional testing.

## The Future of Discovery Science in Grade 5 Education

Looking ahead, several trends and innovations are poised to shape Discovery Science for young learners:

### Integration with STEM Education

Combining science with technology, engineering, and mathematics fosters interdisciplinary understanding. For example, coding robots to explore physical principles.

### Use of Digital Resources and Virtual Labs

Augmented reality (AR) and virtual labs can overcome resource limitations, providing immersive experiences.

### Emphasis on Sustainability and Environmental Awareness

Future curricula are likely to incorporate more content on climate change, conservation, and sustainable practices, aligning with global priorities.

### Professional Development for Educators

Ongoing training will be vital to equip teachers with the skills needed for inquiry-based learning and technology integration.

## Conclusion

Discovery Science Grade 5 plays a crucial role in cultivating the next generation of scientifically literate, curious, and capable individuals. Its focus on active participation, inquiry, and real-world relevance aligns with modern educational principles and prepares students for future academic and life challenges. While challenges such as resource limitations and teacher training remain, ongoing



innovations and a growing emphasis on experiential learning promise a vibrant future for discovery science in elementary education.

By fostering a love for exploration and understanding the world through scientific inquiry, Discovery Science at the fifth-grade level not only enhances academic achievement but also nurtures skills essential for lifelong learning and responsible citizenship. As educators, parents, and policymakers continue to prioritize inquiry-based learning, the potential for young learners to thrive in a complex, ever-changing world through Discovery Science remains boundless.

**QuestionAnswer** What is discovery science for grade 5 students? Discovery science for grade 5 students is a hands-on approach to learning about the natural world through experiments, observations, and exploring new ideas to understand how things work. Why is discovery science important for fifth graders? Discovery science helps fifth graders develop critical thinking, problem-solving skills, and curiosity about science topics by actively engaging them in experiments and exploration. What are some popular topics in grade 5 discovery science? Popular topics include ecosystems, the water cycle, simple machines, the solar system, and properties of matter. How can grade 5 students participate in discovery science activities at home? Students can conduct simple experiments like observing plant growth, creating volcano models, or exploring magnets to learn through hands-on discovery at home. What are the key skills learned in discovery science for grade 5? Students learn observation, data collection, hypothesis formation, experimentation, and drawing conclusions through discovery science activities. How does discovery science differ from traditional science teaching? Discovery science emphasizes student-led exploration and experimentation, while traditional teaching often focuses on lecture and memorization of facts. Can discovery science help students prepare for future science studies? Yes, it builds curiosity, critical thinking, and hands-on skills that are essential for more advanced science learning in higher grades. What safety precautions should be taken during discovery science experiments for grade 5 students? Students should always wear safety goggles, handle materials carefully, follow instructions, and conduct experiments under adult supervision to ensure safety.

**Related keywords:** discovery science, grade 5 science, science experiments, earth science, physical science, life science, science projects, science curriculum, elementary science, scientific method

## space shuttle discovery the champion of the space

**Space Shuttle Discovery the Champion of the Space** has etched its name in the annals of space exploration as one of the most iconic and versatile spacecraft in history. Renowned for its numerous missions, technological innovations, and contribution to scientific advancement, Discovery remains a

symbol of human ingenuity and determination to explore the cosmos. This article delves into the history, achievements, technical specifications, and legacy of the space shuttle Discovery, highlighting why it is celebrated as a true champion of space.

## Introduction to Space Shuttle Discovery

The space shuttle Discovery was one of NASA's most distinguished orbiters, part of the Space Shuttle fleet that revolutionized space travel from the 1980s through the early 2010s. Launched for the first time in 1984, Discovery completed a total of 39 missions, accumulating over 365 days in space, and traveling more than 148 million miles.

## Historical Background and Development

### Origins and Design

Discovery was originally designated as OV-103 and was built to replace the Challenger orbiter after its tragic accident in 1986. Its design incorporated advancements learned from previous shuttles, emphasizing safety, reliability, and versatility. NASA engineers and scientists aimed to create a spacecraft capable of supporting a diverse array of missions, including satellite deployment, space station assembly, and scientific research.

### Construction and First Flight

Constructed at the Rockwell International facility, Discovery's maiden voyage took place on August 30, 1984, on mission STS-41-D. Its successful launch marked the beginning of a new era in space exploration, paving the way for numerous pivotal missions.

## Major Achievements and Missions

Discovery's operational career is distinguished by several historic and groundbreaking missions:

### Deployment of the Hubble Space Telescope

One of Discovery's most notable achievements was the deployment of the Hubble Space Telescope during the STS-31 mission in 1990. This telescope has since provided invaluable data, images, and insights into the universe, revolutionizing astronomy.

### Construction and Servicing of the International Space Station (ISS)

Discovery played a vital role in building and servicing the ISS. It carried essential modules and components, including the Unity and Destiny modules, and conducted multiple servicing missions to

upgrade and repair the station, ensuring its functionality and longevity.

## Scientific Research and Experiments

Over its career, Discovery transported numerous scientific payloads, conducting experiments in microgravity that advanced our understanding of biology, physics, and materials science.

## Notable Missions Summary

- STS-41-D (1984): Launch and deployment of communications satellites.
- STS-51-D (1985): Deployment of communications satellites and scientific experiments.
- STS-61 (1993): Servicing the Hubble Space Telescope with corrective optics.
- STS-95 (1998): Scientific investigations and the return of astronaut John Glenn to space.
- STS-114 (2005): First shuttle mission after the Columbia accident, focusing on safety and repair techniques.
- STS-133 (2011): Final mission, delivering the Express Logistics Carrier-4 and the Permanent Multipurpose Module to the ISS.

## Technical Specifications of Discovery

Understanding the design and technical features of Discovery highlights its capabilities and resilience:

### Physical Dimensions and Weight

- Length: approximately 37.2 meters (122 feet)
- Wingspan: 24.4 meters (80 feet)
- Height: 17.5 meters (57 feet)
- Max takeoff weight: around 2,050,000 pounds (930,000 kg)

### Propulsion and Power

- Main engines: Three Space Shuttle Main Engines (SSMEs)
- Solid Rocket Boosters (SRBs): Two, providing the initial thrust during launch
- External tank: Carries fuel for the main engines

### Capacity and Payload

- Crew capacity: Up to 8 astronauts
- Payload bay dimensions: 18 meters long and 4.2 meters wide
- Maximum payload weight: Approximately 27,500 pounds (12,500 kg)

## Innovations and Safety Features

Discovery incorporated several safety enhancements, such as reinforced thermal protection tiles, upgraded avionics, and backup systems, to ensure crew safety during complex missions.

## Legacy and Cultural Impact

### Contributions to Space Exploration

Discovery's versatile mission portfolio contributed significantly to the construction of the ISS, the deployment of scientific instruments, and the advancement of human spaceflight. It demonstrated the practicality and importance of reusable spacecraft, setting the stage for future exploration initiatives.

### Inspiring Future Generations

As a symbol of human achievement, Discovery has inspired countless individuals worldwide to pursue careers in science, technology, engineering, and mathematics. Its missions have been featured in documentaries, educational programs, and popular culture, cementing its place in history.

### Preservation and Public Legacy

After completing its final mission in 2011, Discovery was retired and became part of the National Air and Space Museum's collection in Washington, D.C. Visitors can tour the spacecraft, learn about its missions, and appreciate the technological marvels that made space exploration possible.

## The Future of Spacecraft Inspired by Discovery

While Discovery itself is retired, its legacy influences current and future space endeavors:

- Continued development of reusable spacecraft, such as SpaceX's Starship and NASA's Orion.
- Enhanced focus on international cooperation in space stations and exploration missions.
- Advancements in scientific payloads and in-space servicing techniques inspired by Discovery's missions.

## Conclusion

The space shuttle Discovery stands as a testament to human curiosity, innovation, and perseverance. Its extensive service record, historic missions, and technological advancements have left an indelible mark on space exploration. As the champion of space, Discovery not only expanded our understanding of the universe but also paved the way for future explorers to reach farther and achieve more. Its legacy continues to inspire the next generation of scientists, engineers, and explorers committed to unlocking the secrets of the cosmos.

### Space Shuttle Discovery: The Champion of Space

The Space Shuttle Discovery stands out as one of the most iconic and celebrated spacecraft in the history of human space exploration. As a symbol of technological innovation, resilience, and pioneering spirit, Discovery has earned its reputation as the "champion of space" through decades of service, groundbreaking missions, and its pivotal role in expanding humanity's reach beyond Earth. From its first launch to its historic missions and eventual retirement, Discovery embodies the ingenuity and determination that have propelled us into the cosmos.

## Introduction to Space Shuttle Discovery

The Space Shuttle Discovery was a part of NASA's Space Shuttle program, which operated from 1981 to 2011. Named after one of the five original space shuttles, Discovery was the third operational orbiter and was constructed to replace the Challenger, which tragically disintegrated shortly after launch in 1986. Over its lifespan, Discovery became a symbol of technological achievement and resilience, participating in a total of 39 missions—the most of any space shuttle—covering a wide array of scientific, military, and international collaboration efforts.

## Design and Features of Discovery

The design of Discovery incorporated advanced technology and safety features to ensure successful missions and crew safety. It was built with a robust airframe, advanced thermal protection systems, and versatile payload capabilities.

### Key Features:

- Length: Approximately 37.2 meters (122 feet)
- Wingspan: 23.79 meters (78.1 feet)
- Maximum Payload Capacity: Up to 27,500 kg (60,600 lbs) to low Earth orbit
- Crew Capacity: Typically 7 astronauts
- Thermal Protection System: Over 30,000 tiles made of silica-based material to withstand

re-entry heat

- Unique Engineering Aspects: Modular design allowing for various mission configurations, including satellite deployment, space station servicing, and interplanetary science

Pros:

- Versatile payload bay capable of handling a wide array of scientific instruments and modules
- Reusable design significantly reduced mission costs over time
- Advanced safety systems contributed to a high crew survival rate

Cons:

- Complex maintenance and refurbishment processes
- Aging components required upgrades over its operational life
- High operational costs compared to newer spacecraft

## Major Missions and Contributions

Discovery's extensive mission history showcases its central role in advancing space science, international cooperation, and technological development.

### Significant Missions:

- Hubble Space Telescope Deployment (1990): One of Discovery's most famous missions, STS-31, launched and deployed the Hubble Space Telescope, revolutionizing astronomy and deep-space observation.
- International Space Station (ISS) Servicing: Discovery delivered modules, supplies, and crew to the ISS multiple times, playing a vital part in constructing and maintaining the station.
- Spacelab Missions: Conducted scientific experiments aboard Spacelab aboard the shuttle, contributing valuable data across various scientific disciplines.
- Return to Flight Missions: Post-Challenger and Columbia accidents, Discovery participated in critical missions to test and improve safety protocols, restoring public confidence in spaceflight.

### Achievements and Impact:

- Scientific Advancement: Discovery's missions have expanded our understanding of the universe, from deploying telescopes to studying Earth's atmosphere.

- International Collaboration: The shuttle facilitated cooperation with international partners, launching satellites and modules for the European Space Agency, Japan, and others.
- Technological Innovation: The shuttle's reusable design and onboard systems set standards for future spacecraft.

## Discovery's Role in Space Exploration Milestones

Discovery's contributions go beyond individual missions; they are woven into the broader narrative of space exploration.

### Hubble Space Telescope Deployment

The deployment of Hubble aboard Discovery's STS-31 mission marked a turning point in astronomy. The telescope has provided unprecedented views of the universe, leading to discoveries about black holes, dark energy, and the age of the universe. Discovery's precise deployment and subsequent servicing missions ensured Hubble's longevity and scientific productivity.

### Building the International Space Station

Discovery played a critical role in constructing and resupplying the ISS. Its cargo bay carried solar arrays, modules, and scientific instruments that formed the backbone of the station. Its missions facilitated international partnerships and demonstrated the shuttle's versatility in supporting long-term human presence in space.

### Advancing Space Science and Technology

By testing new systems and launching experimental payloads, Discovery contributed to the development of future spacecraft and space technologies. Its missions helped refine thermal protection, navigation, and robotics systems that underpin current space missions.

## Retirement and Legacy of Discovery

After completing 39 missions, Discovery was retired in 2011 and is now displayed at the Smithsonian National Air and Space Museum in Washington, D.C. Its legacy endures through its contributions to science, engineering, and international collaboration.

### Pros of Discovery's Service:

- Most flown shuttle, demonstrating reliability and operational success
- Played a pivotal role in deploying and servicing critical space assets like Hubble

- Contributed extensively to the construction and resupply of the ISS
- Demonstrated the effectiveness of reusable spacecraft technology
- Fostered international cooperation and scientific progress

## Cons and Challenges:

- Aging hardware necessitated extensive upgrades and maintenance
- High costs associated with refurbishment and operation
- Tragic accidents (Challenger and Columbia) underscored the inherent risks of spaceflight
- Limited payload capacity compared to newer launch systems

## Features that Make Discovery a Champion:

- Durability and versatility in mission profiles
- Significant scientific and technological achievements
- Adaptability in supporting international space efforts
- Symbol of resilience and human ingenuity

## The Cultural and Historical Significance of Discovery

Beyond its technical achievements, Discovery embodies the spirit of exploration and perseverance. It has inspired generations of scientists, engineers, and space enthusiasts. Its missions have been televised worldwide, capturing the imagination of millions and cementing its place in history.

The shuttle's image, often depicted with its distinctive white and black thermal tiles, has become synonymous with human spaceflight's adventurous spirit. Its contribution to science and international cooperation has set a benchmark for future exploration missions, including NASA's Artemis program and commercial space endeavors.

## Conclusion: The Enduring Legacy of Space Shuttle Discovery

In conclusion, the Space Shuttle Discovery truly deserves the title of the "champion of space." Its remarkable service record, groundbreaking missions, and technological innovations have left an indelible mark on space exploration. It demonstrated that reusable spacecraft could revolutionize space travel, paving the way for future missions to the Moon, Mars, and beyond.

Discovery's legacy is not only in its achievements but also in the inspiration it continues to provide. As humanity looks toward a future of sustainable space exploration, the pioneering spirit embodied by Discovery remains a guiding light. Its contributions have helped expand our understanding of the



universe, build international partnerships, and demonstrate that with perseverance and ingenuity, the sky is no longer the limit—it's just the beginning.

In summary, the Space Shuttle Discovery embodies the triumphs, challenges, and aspirations of human spaceflight. Its storied history, technological prowess, and cultural impact make it a true champion of space exploration—an enduring symbol of what we can achieve when we dare to reach for the stars.

**QuestionAnswer** What made Space Shuttle Discovery stand out as a champion of space exploration? Space Shuttle Discovery was renowned for its reliability, versatility, and its role in numerous historic missions, including deploying the Hubble Space Telescope and assembling the International Space Station, earning it a reputation as one of NASA's most accomplished shuttles. How many missions did Space Shuttle Discovery complete during its service? Space Shuttle Discovery completed a total of 39 missions from 1984 to 2011, making it one of the most flown shuttles in NASA's fleet. What are some of the most significant achievements of Space Shuttle Discovery? Key achievements include launching and servicing the Hubble Space Telescope, delivering modules for the International Space Station, and supporting numerous scientific experiments and space station assembly tasks. Why is Space Shuttle Discovery often referred to as the 'champion of space'? Because of its extensive and successful mission record, pivotal role in space station construction, and its contributions to scientific discovery, Discovery earned the nickname as a symbol of NASA's space exploration leadership. What was the final mission of Space Shuttle Discovery? The final mission was STS-133 in February 2011, during which Discovery delivered supplies and components to the International Space Station before retiring from service. Where is Space Shuttle Discovery now displayed? Space Shuttle Discovery is permanently displayed at the Smithsonian National Air and Space Museum Steven F. Udvar-Hazy Center in Chantilly, Virginia. How did Space Shuttle Discovery contribute to advancing human spaceflight? Discovery's missions helped expand our understanding of space, facilitated the construction of the ISS, and demonstrated the capabilities of reusable spacecraft, paving the way for future exploration endeavors.

**Related keywords:** space shuttle, Discovery, NASA, space exploration, astronaut, space mission, rocket, spacecraft, launch vehicle, space program

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