

discovery dog science ks1 template Study Guide

Understanding the Discovery Dog Science KS1 Template: A Comprehensive Guide

Discovery Dog Science KS1 template is an innovative educational resource designed to engage young learners in the fascinating world of science through the theme of dogs. Perfectly aligned with the Key Stage 1 curriculum in the UK, this template offers a structured way for teachers and students to explore scientific concepts in a fun and interactive manner. Whether used for classroom activities, homework, or project-based learning, the Discovery Dog Science KS1 template helps foster curiosity, critical thinking, and a deeper understanding of scientific principles.

What Is the Discovery Dog Science KS1 Template?

Definition and Purpose

The Discovery Dog Science KS1 template is a specially designed worksheet or activity plan that guides young students through various science topics centered around dogs. It aims to make science accessible and engaging by using a familiar and beloved animal—dogs—as a focal point for exploration. The template typically includes sections for observation, hypothesis, experimentation, and conclusions, all tailored to meet the learning standards of KS1 students.

Key Features of the Template

- **Structured Layout:** Clear sections for each part of the scientific method
- **Visual Aids:** Images of different dog breeds, bones, and other relevant visuals to stimulate interest
- **Interactive Elements:** Spaces for students to record observations, draw diagrams, and write hypotheses
- **Adaptability:** Suitable for a range of activities, from simple observations to mini experiments
- **Curriculum Alignment:** Meets KS1 science objectives related to animals, senses, and habitats

Why Use a Discovery Dog Science KS1 Template?

Benefits for Students

- **Enhanced Engagement:** Using dogs as a theme captures students' interest and motivates participation
- **Development of Scientific Skills:** Encourages observation, questioning, and data recording
- **Hands-On Learning:** Promotes experiential learning through activities and experiments
- **Vocabulary Building:** Introduces key scientific terms in an accessible context

Benefits for Teachers

- **Structured Planning:** Simplifies lesson planning with ready-made templates
- **Assessment Tool:** Provides a clear record of student progress and understanding
- **Curriculum Coverage:** Ensures lessons align with KS1 science objectives
- **Resource Efficiency:** Saves preparation time by offering ready-to-use materials

Key Topics Covered by the Discovery Dog Science KS1 Template

1. Animal Characteristics and Classification

This section explores different dog breeds, their physical features, and how they can be classified. Students learn to observe and compare characteristics such as size, coat type, and behavior.

2. Senses and Perception

Students investigate how dogs use their senses: sight, smell, hearing, taste, and touch. Activities include simple experiments like testing which objects dogs can smell or how they respond to sounds.

3. Habitats and Diet

Lessons focus on where dogs live, what they eat, and how their environment influences their health. Students might create diagrams of a dog's habitat or explore different dietary needs.

4. Life Cycle and Growth

This area covers the stages of a dog's life from puppyhood to adulthood. Students observe or research the growth process and record findings in the template.

5. Scientific Inquiry and Experimentation

Encourages students to formulate hypotheses, conduct simple experiments (e.g., testing a dog's reaction to different stimuli), and record results systematically.

How to Use the Discovery Dog Science KS1 Template Effectively

Step-by-Step Guide

- **Introduction:** Begin with a discussion about dogs to spark interest and prior knowledge.
- **Set Objectives:** Clearly define what students will learn and investigate.
- **Activity Planning:** Choose activities that align with the template's sections, such as observing a dog or watching a video.
- **Observation and Data Collection:** Use the template to record findings, drawings, and hypotheses.
- **Discussion and Reflection:** Encourage students to share their observations and conclusions, reinforcing learning.
- **Assessment:** Use completed templates to assess understanding and identify areas for further exploration.

Tips for Success

- Integrate multimedia resources like videos and pictures of dogs to enhance engagement.
- Incorporate hands-on activities such as visiting a local animal shelter or observing dogs in a park.
- Use questioning techniques to deepen understanding and stimulate curiosity.
- Encourage students to ask their own questions and design mini experiments based on their interests.

Customization and Adaptation of the Template

Making It Suitable for Different Learning Styles

The KS1 template can be adapted to cater to diverse learners by incorporating visual, tactile, and auditory elements. For example:

- Add more visuals or use tactile materials for students with special needs
- Include storytelling or role-play activities involving dogs
- Use digital resources for interactive experiments

Extending Learning Beyond the Classroom

Teachers can extend the use of the template by involving families in activities such as:

- Home observations of dogs or pets
- Creating a family dog care plan
- Sharing findings through presentations or class displays

Conclusion: Embracing the Joy of Science with Dogs

The **discovery dog science KS1 template** serves as an excellent tool to introduce young learners to core scientific concepts in an engaging and meaningful way. By centering activities around dogs, a subject that naturally sparks curiosity, educators can foster a love for science early on. The template's structured approach, combined with interactive and adaptable elements, makes it a valuable resource for delivering effective KS1 science lessons. Whether used as a standalone activity or as part of a broader science curriculum, this template helps nurture inquisitive minds, develop scientific skills, and promote hands-on learning.

Incorporating the Discovery Dog Science KS1 template in your teaching practice can transform the way children experience science—making it fun, accessible, and memorable. As students observe, question, and discover the world of dogs, they build foundational scientific understanding that will serve them well in future learning adventures.

Discovery Dog Science KS1 Template: An In-Depth Review

The Discovery Dog Science KS1 Template has become a popular resource among early years educators and parents aiming to introduce young children to the fascinating world of dogs through structured, engaging, and educational activities. Designed specifically for Key Stage 1 students, this template combines scientific inquiry with fun, hands-on learning, making it an ideal tool for fostering curiosity about animals, particularly dogs, at an early age. In this comprehensive review, we will explore the features, benefits, potential drawbacks, and practical applications of the Discovery Dog Science KS1 Template, providing educators and caregivers with a thorough understanding of its value in the classroom or home learning environment.

Overview of the Discovery Dog Science KS1 Template

The Discovery Dog Science KS1 Template is a structured resource aimed at guiding children through the scientific process while exploring various aspects of dogs—their behavior, anatomy, habitats, and roles in human society. It typically includes a series of worksheets, activities, and prompts aligned with the curriculum objectives for Year 1 and Year 2 students in the UK education system. The template emphasizes inquiry-based learning, encouraging children to ask questions, observe, hypothesize, and draw conclusions about dogs.

Designed with bright visuals, simple language, and interactive elements, the template caters to young learners' developmental needs. It often incorporates cross-curricular links, integrating science

with literacy, numeracy, and art, to provide a holistic learning experience.

Features of the Discovery Dog Science KS1 Template

The template boasts several features that make it a versatile and engaging educational tool:

1. Structured Learning Pathways

- Clear sections for each scientific step: asking questions, observing, experimenting, recording, and reflecting.
- Progressive activities that build on prior knowledge, enhancing understanding over time.

2. Visual and Interactive Content

- Bright illustrations and photographs of different dog breeds, behaviors, and habitats.
- Interactive elements such as cut-outs, matching exercises, and simple experiments.

3. Curriculum Alignment

- Designed to meet the UK National Curriculum for KS1 science.
- Incorporates key scientific vocabulary and concepts suitable for young learners.

4. Cross-Curricular Integration

- Links to literacy: reading comprehension and writing tasks related to dogs.
- Links to art: drawing and coloring activities of dogs and their environments.
- Links to numeracy: data collection and basic graphs about dog breeds or sizes.

5. Flexibility and Adaptability

- Suitable for both classroom and home use.
- Teachers and parents can select activities based on the children's interests and learning levels.

Pros of the Discovery Dog Science KS1 Template

- **Engaging Content:** The bright visuals and interactive activities capture young children's interest, making learning about science enjoyable.
- **Curriculum-Compliant:** Structured to align with national standards, ensuring educational relevance.
- **Encourages Inquiry:** Promotes a scientific mindset by guiding children through questioning, observing, and hypothesizing.
- **Versatile Use:** Suitable for various settings, including classrooms, homeschool environments, and after-school clubs.
- **Develops Multiple Skills:** Combines science understanding with literacy, numeracy, and art, fostering well-rounded development.
- **Supports Differentiation:** Activities can be adapted to cater to different learning abilities and paces.

Cons and Limitations

- **Limited Scope:** Focused specifically on dogs, which may restrict broader scientific exploration unless supplemented with additional resources.
- **Requires Supervision:** Some activities, such as experiments or handling real dogs, need adult oversight to ensure safety.
- **Resource Dependence:** Might require printing or digital devices, which could be a barrier in some settings.
- **Potential Repetition:** Without variation, children might find repeated activities less stimulating over time.
- **Curriculum Specific:** Primarily aligned with UK standards; may need adaptation for international curricula.

Practical Applications in the Classroom

The Discovery Dog Science KS1 Template is particularly effective when integrated into thematic units or science topics focusing on animals or habitats. Teachers can use it to structure lessons around the following ideas:

1. Introduction to Dogs and Their Characteristics

Begin with engaging discussions about different dog breeds, their traits, and roles in human society. Use the visuals in the template to stimulate discussion and curiosity.

2. Scientific Observation and Data Collection

Encourage children to observe pictures or, if possible, real dogs. Have them record their

observations, compare breeds, and create simple data charts.

3. Experiments and Hypotheses

Design simple experiments, such as testing how dogs respond to different sounds or treats. Guide children to hypothesize and record outcomes, fostering critical thinking.

4. Creative Activities

Incorporate art by drawing their favorite dog breed, or writing stories inspired by their knowledge of dogs. These activities deepen engagement and reinforce learning.

5. Reflection and Sharing

Conclude lessons with children sharing their findings, drawing conclusions, and asking further questions, nurturing a scientific attitude.

How to Maximize the Effectiveness of the Template

To derive maximum educational benefit from the Discovery Dog Science KS1 Template, consider the following tips:

- Supplement with Real-Life Experiences: If possible, arrange visits to local shelters, parks, or invite dog owners to talk about their pets.
- Combine with Storytelling: Use children's literature about dogs to build emotional connections and contextual understanding.
- Encourage Parental Involvement: Share activities that children can do at home, fostering family engagement.
- Adapt for Differing Needs: Modify activities to suit children with special educational needs or varying levels of ability.
- Use Digital Resources: Incorporate videos, virtual tours, or interactive quizzes to enhance engagement, especially in remote learning contexts.

Conclusion

The Discovery Dog Science KS1 Template is a comprehensive, engaging, and curriculum-aligned resource that effectively introduces young learners to the scientific exploration of animals, specifically dogs. Its combination of visual appeal, interactive activities, and structured learning pathways makes it a valuable tool for educators and parents seeking to foster curiosity and foundational scientific skills in early learners. While it has some limitations, particularly in scope and

resource requirements, these can be mitigated through supplementary activities and real-world experiences. Overall, this template is a highly recommended resource for enriching early science education with an animal-themed approach that is both fun and educational.

Question What is the purpose of the Discovery Dog Science KS1 template? The template is designed to help young students explore and learn about dogs through scientific activities and discoveries suitable for Key Stage 1 learners. **How can I use the Discovery Dog Science KS1 template in the classroom?** You can incorporate the template into lessons by guiding students through science experiments, observations about dogs, and recording their findings using the provided format. **What topics are covered in the Discovery Dog Science KS1 template?** The template covers topics such as a dog's senses, habitats, diet, and body parts, encouraging children to explore and understand how dogs live and behave. **Is the Discovery Dog Science KS1 template suitable for all primary school students?** Yes, it is designed for Key Stage 1 students, typically aged 5-7, providing age-appropriate activities and information about dogs. **Can teachers customize the Discovery Dog Science KS1 template?** Yes, teachers can adapt the template to suit their lesson plans, add additional activities, or modify questions to better fit their students' learning needs. **Where can I find the Discovery Dog Science KS1 template online?** You can find the template on educational websites, teaching resource platforms, or school resource hubs that offer primary science materials designed for KS1 learners.

Related keywords: dog science, KS1 science template, animal discovery, pet science activity, classroom science template, animal behavior worksheet, educational dog facts, science experiment template, pet care activity, kindergarten science materials

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.

Question What made Space Shuttle Discovery stand out as a champion of space exploration? **Answer** 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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