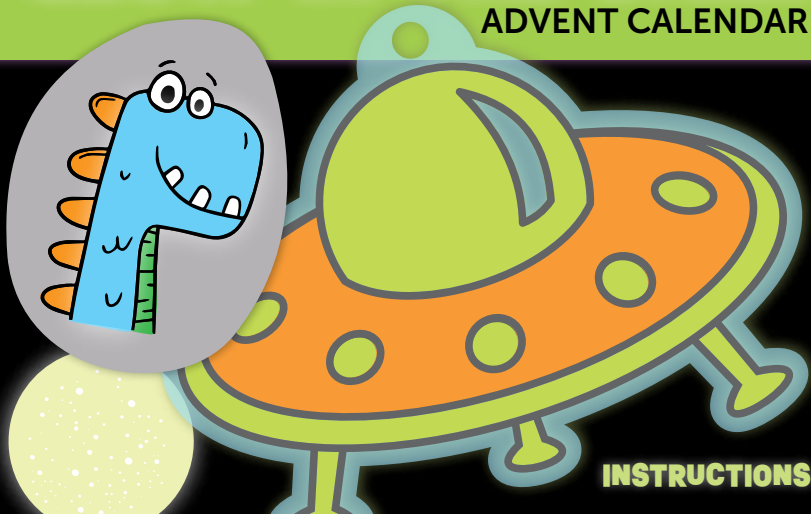


GLOW-IN-THE-DARK

ADVENT CALENDAR



INSTRUCTIONS

ADULT SUPERVISION RECOMMENDED

WARNING: THIS SET CONTAINS CHEMICALS THAT MAY BE HARMFUL IF MISUSED. READ CAUTIONS ON INDIVIDUAL CONTAINERS CAREFULLY. NOT TO BE USED BY CHILDREN EXCEPT UNDER ADULT SUPERVISION.

CAUTION: DO NOT SHINE LIGHT DIRECTLY INTO EYES. DO NOT STARE DIRECTLY INTO LIGHT.



WARNING: This product contains a button or coin battery. New and used batteries are hazardous and should be kept away from children. A button or coin battery can cause serious injuries or internal chemical burns leading to death in as little as two hours if swallowed or placed inside any part of the body. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention. Dispose of used batteries immediately in accordance with local regulations.

For Australia Residents: If you suspect a battery has been swallowed or otherwise placed inside any part of the body, contact the Australian Poison Information Centre immediately for 24/7 fast, expert advice. Telephone: 13 11 26

DO NOT MIX OLD AND NEW BATTERIES

DO NOT MIX ALKALINE, STANDARD (CARBON-ZINC), OR RECHARGEABLE BATTERIES

WARNING: THIS SET CONTAINS CHEMICALS THAT MAY BE HARMFUL IF MISUSED. READ THE INFORMATION IN THE INSTRUCTION MANUAL. IF SPLASHED IN THE EYES, OR ON SKIN, FLUSH THOROUGHLY WITH WATER. GET MEDICAL ATTENTION IMMEDIATELY IF SPLASHED IN EYES. NOT TO BE USED BY CHILDREN EXCEPT UNDER ADULT SUPERVISION. NOT RECOMMENDED FOR CHILDREN UNDER 8 YEARS OF AGE.

AVERTISSEMENT. AVERTISSEMENT. CE NÉCESSAIRE CONTIENT DES PRODUITS CHIMIQUES QUI PEUVENT ÊTRE NOCIFS S'ILS SONT MAL UTILISÉS. LIRE LES INDICATIONS DE LA BROCHURE D'INSTRUCTIONS. EN CAS D'ÉCLABOUSSURES SUR LA PEAU OU DANS LES YEUX, BIEN RINCER À GRANDE EAU. RECOURIR IMMÉDIATEMENT AUX SOINS DU MÉDECIN SI LES YEUX ONT ÉTÉ TOUCHÉS. NE DOIT PAS ÊTRE UTILISÉ PAR DES ENFANTS QUI NE SONT PAS SOUS LA SURVEILLANCE D'UN ADULTE. CONTRE-INDIQUÉ POUR LES ENFANTS DE MOINS DE 8 ANS.

TIPS FOR PAINTING SUCCESS



Set up a workstation by laying down some paper towels, newspaper, or other surface covering. Consider wearing old clothes too as the paint may stain clothing.

Have some additional paper towels and a cup of water nearby while



painting to help clean your paintbrush when necessary. **Always thoroughly clean and dry your paintbrush and palette after each painting activity.**

Let the initial paint layers dry completely before adding other colors for the best results.



TO MAKE YOUR ITEMS GLOW

Set glow-in-the-dark items in this kit directly under a lamp, the sun, or UV light for 1-5 minutes. Take them into a dark room and enjoy! If the glow dies down just hold your item under a lamp again to recharge.



DID YOU KNOW?

The primary colors (red, blue, and yellow) can't be created by mixing two different colors.



The secondary colors are made by mixing two primary colors.



Adding white or black to a color will make it lighter or darker.



DAY 1

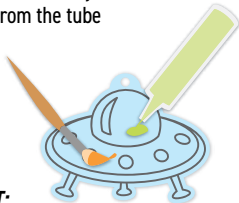
Paint a UFO Suncatcher

CONTENTS

- UFO suncatcher
- Green glow-in-the-dark translucent paint
- Orange glow-in-the-dark translucent paint
- Paint palette
- 2 paintbrushes
- Suction cup

PAINTING INSTRUCTIONS

- 1 Squeeze a thin layer of paint from the tube directly onto the design and spread the paint using your paintbrush.



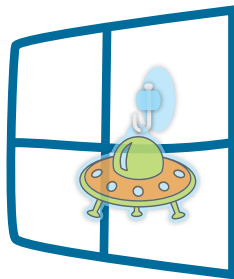
IMPORTANT:

Thin paint layers allow sunlight to shine through the stencil when it's displayed in a window. They also allow the glow-in-the-dark paints to charge more effectively.

- 2 Rinse and dry your paintbrush thoroughly before switching colors.
- 3 Let your design dry overnight.



HANGING INSTRUCTIONS



- 1 Find a window that doesn't get too much direct sunlight, as this will cause your paint to fade.
- 2 Clean the window with a household window cleaner. Clean the suction cup using a damp rag or paper towel and let it air dry completely.
- 3 Hang your suncatcher on the hook of the suction cup, then press the suction cup onto the window in your desired location.



DID YOU KNOW?

The first widely known UFO sighting happened in 1947 when Kenneth Arnold claimed to see nine objects moving at a high speed near Mt. Rainier in Washington State. He described the objects as moving like "saucers" skipping over water, which later led to the term *flying saucer*.



Possible UFO sighting in 1952 in New Jersey



DON'T THROW IT AWAY

Save all your components for future activities!

DAY 2

Write a Secret Message

CONTENTS

- Invisible ink pen
- UV light

INSTRUCTIONS

1 Find a piece of paper from home and write a secret message using the invisible ink pen.



2 Go to a dark room and shine your UV light on the paper to reveal your secret message!



DID YOU KNOW?

Keeping important messages hidden is vital for spies, so many will use special codes to communicate important information secretly. This also means that people who can decipher, or "break," a code are very important.



Alan Turing
Famous code breaker

DAY 3

Make a Bouncy Ball that Glows in the Dark!

CONTENTS

- Bouncy ball mold
- Glow-in-the-dark polymer powder

WHAT TO GET

- Clear cup
- Cold water
- Paper towels
- UV light (from Day 2)

INSTRUCTIONS

1 Get a cup from home that's large enough for the bouncy ball mold to fit within. Fill the cup half way with water.



2 Assemble the ball mold by snapping it together.



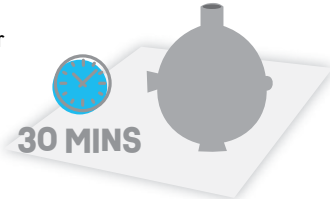
- 3** Fill the mold to the rim with the glow-in-the-dark polymer powder.



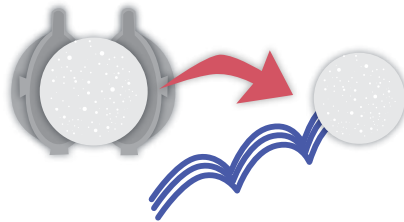
- 4** Submerge the powder-filled mold in the cup of water (add extra water if needed) and hold it underwater to allow the air to escape. Let the mold sit underwater for 10 minutes.



- 5** Take the mold out of the water and let it sit on a paper towel for 30 minutes.



- 6** Carefully open the mold to remove your bouncy ball. Make sure it is not sticky before bouncing it. **Note:** If your ball sticks to the mold when opening, let the mold sit for a few more minutes and try again.



DID YOU KNOW?

Polymers are large molecules made up of repeating units. Depending on the type of molecules and how they are attracted, polymers can do amazing things. They can stretch and bend, like polyester, or be stiff and durable, like glass.

The polymers in your ball, for instance, relax their bonds when they hit a hard surface. Those bonds quickly snap back into their original shape, sending your ball back into the air.



STOP

DON'T THROW IT AWAY
Save all your components
for future activities!

DAY 4

Paint Your Own Dino Stone

CONTENTS

- Transfer sticker
- Light blue glow-in-the-dark puffy paint
- 3 tubes of acrylic paint
- River stone

WHAT TO GET

- Clear cup
- Cold water
- Paper towels
- Paintbrush (from Day 1)
- Paint palette (from Day 1)

APPLY YOUR TRANSFER STICKER

1 Choose a position on the rock where you'd like to apply your transfer sticker, then peel the plastic cover off the sticker.

2 Place the sticker on the rock, with the image side on the surface of the rock. Apply pressure evenly. **Note:** You may reposition your sticker at this point if needed. Even if the sticker is no longer sticky, it will still transfer.



3 Once you're happy with the sticker's position, use a wet towel or sponge and dab the top of the sticker paper, covering the entire sticker.



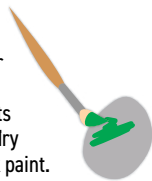
4 The water will release the sticker from the paper, so ensure it's completely saturated. Let the sticker sit for 30-60 seconds, then peel the paper off.



PAINT YOUR ROCK SURFACE

Using Acrylic Paint

Squeeze a little of each acrylic paint color you'd like to use into the basins of your palette. Use your brush to apply the paints to the rock surface. Let the acrylic paint dry completely before using glow-in-the-dark paint.



Using Glow-in-the-Dark Paint

Once your acrylic paint is completely dried, you're ready to use glow-in-the-dark paints.

Apply glow-in-the-dark paints directly from the paint tube(s) onto the rock surface. The paint texture will be thick and raised and should not be spread with the paintbrush. Use the glow-in-the-dark paint for raised glowing accents only.



DID YOU KNOW?

Soon after the first dinosaur fossils were identified, Sir Richard Owen gave the group its name, *dinosauria*, from the Greek words *deinos*, meaning "fearfully great," and *sauros*, meaning "lizard."



DON'T THROW IT AWAY

Save all your components for future activities!

DAY 5

Stegosaurus

CONTENTS

- Glow-in-the-dark stegosaurus



The row of long, bony plates running down its back makes Stegosaurus one of the most recognizable of all dinosaurs. Scientists believe these plates helped the animal regulate its body temperature.

DAY 6

Paint a Rocket Suncatcher

CONTENTS

- Rocket suncatcher
- Blue glow-in-the-dark translucent paint
- Suction cup

WHAT TO GET

- Paintbrush (from Day 1)
- Paint palette (from Day 1)
- Leftover paint (from Day 1)

See Day 1 for painting and hanging instructions.



DID YOU KNOW?

Have you ever blown up a balloon and then let go of it without tying it off? The balloon moves forward as the air escapes, right? Well, rockets work in the same way. In its most basic form, a rocket is a device that contains pressurized gas that, when released through a small opening, pushes the device in the opposite direction.



STOP

DON'T THROW IT AWAY
Save all your components for future activities!

DAY 7

Ankylosaurus

CONTENTS

- Glow-in-the-dark ankylosaurus

Ankylosaurus had protective armor made of bone and could be up to 30 feet (9.1 m) long. Its club-like tail was likely used to protect it against predators.



DAY 8

Paint a Unicorn Stone

See Day 4 for stone decorating instructions.



DID YOU KNOW?

Unicorn mythology dates back many centuries. Descriptions of the creature are recorded in Mesopotamian artworks and appear in ancient myths from India and China. The Greek historian Ctesias described an animal the size of a horse but with a white body and a long single horn protruding from its forehead, however, it's now believed that Ctesias was describing an Indian rhinoceros.



CONTENTS

- Transfer sticker
- Yellow glow-in-the-dark puffy paint
- River stone

WHAT TO GET

- Paintbrush (from Day 1)
- Paint palette (from Day 1)
- Leftover paint (from Day 4)

STOP

DON'T THROW IT AWAY
Save all your components for future activities!

DAY 9

Scorpion

CONTENTS

- Glow-in-the-dark scorpion

Biologists estimate that there are about 1400 species of scorpions, distributed across all continents except Antarctica. Over 100 fossil scorpion species have been found, dating back as far as 430 million years ago.

Scorpions glow under some wavelengths of ultraviolet light. The older the scorpion, the more fluorescent it becomes.



DAY 10

Fluorite

CONTENTS

- Fluorite specimen
- Display stand

Fluorite is a relatively soft mineral found throughout the world. Some samples of fluorite will glow under ultraviolet light—a property called *fluorescence*.



DAY 11

Elephant

CONTENTS

- Glow-in-the-dark elephant

Elephants often use their trunks to keep themselves cool, spraying water all over their bodies and then tossing dust onto their skin to help form a layer of mud that protects them from the sun.



DAY 12

Space Stickers

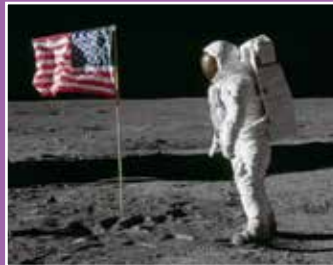
CONTENTS

- Glow-in-the-dark space stickers



DID YOU KNOW?

On July 20, 1969, Apollo 11 landed Neil Armstrong and Buzz Aldrin in the Sea of Tranquility, making them the first humans to set foot on the lunar surface. Five more Apollo missions landed men on the Moon, including the 1971 mission that saw astronauts riding the lunar rover and Alan Shepard of Apollo 14 hitting the first golf ball in space.



DAY 13

Parasaurolophus

CONTENTS

- Glow-in-the-dark parasaurolophus

Parasaurolophus had a crested skull with holes inside that allowed it to make a horn-like call. This call could have been used to alert the herd that predators were nearby or to attract a mate.



DAY 14

Octopus

CONTENTS

- Glow-in-the-dark octopus



There are nearly 300 species of octopus, ranging in size from the *Octopus wolfi* that grows no bigger than an inch (2.54 cm), to the giant Pacific octopus that typically grows to 16 feet (4.8 m) long.

DAY 15

Paint a Bird Stone

CONTENTS

- Transfer sticker
- River stone

WHAT TO GET

- Paintbrush (from Day 1)
- Paint palette (from Day 1)
- Leftover paint (from Day 4 and 8)

See Day 4 for stone decorating instructions.



DID YOU KNOW?

Birds are the only animals in the world that are covered in feathers. Scientists today also explain that modern birds evolved from dinosaurs, specifically the group of two-legged dinosaurs called theropods that included Tyrannosaurus rex and Velociraptors.



The cassowary is thought to be the most similar to dinosaurs.



DON'T THROW IT AWAY
Save all your components for future activities!

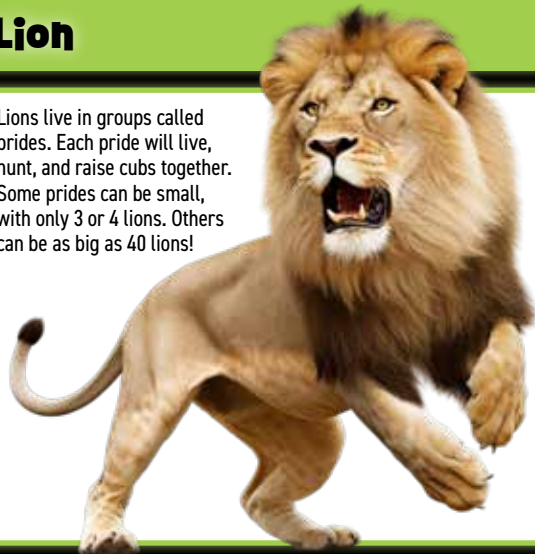
DAY 16

Lion

CONTENTS

- Glow-in-the-dark lion

Lions live in groups called prides. Each pride will live, hunt, and raise cubs together. Some prides can be small, with only 3 or 4 lions. Others can be as big as 40 lions!



DAY 17

Spider

CONTENTS

- Glow-in-the-dark spider



Unlike insects, which have six legs, arachnids all have eight legs. Spiders are the most familiar arachnids and there are about 40,000 different known species. They are found all over the world, from tropical climates to the Arctic. Some species even live underwater!

DAY 18

Make a Bouncy Ball that Glows in the Dark!

CONTENTS

- Bouncy ball mold
- Glow-in-the-dark polymer powder

WHAT TO GET

- Clear cup
- Cold water
- Paper towels
- UV light (from Day 2)

See Day 3 for bouncy ball-making instructions.



DID YOU KNOW?

An extremely bouncy polymer called Zectron was first created by Norman Stingley in the 1960s. A Zectron ball, when dropped from shoulder height, will bounce almost all the way back up to the point at which it was dropped. If an adult threw it down really hard, the ball could bounce as high as a three-story building.



DAY 19

Sea Turtle

CONTENTS

- Glow-in-the-dark sea turtle

There are seven sea turtle species in today's oceans, and the fossil record shows they have been around for 110 million years, making them some of the Earth's most ancient animals. Unlike land turtles, sea turtles cannot retract their heads and legs into their shells. This allows their bodies to be streamlined to move smoothly through the water.



DAY 20

Paint a Dog Stone

CONTENTS

- Transfer sticker
- River stone

WHAT TO GET

- Paintbrush (from Day 1)
- Paint palette (from Day 1)
- Leftover paint (from Day 4, 8, and 15)

See Day 4 for stone decorating instructions.



DID YOU KNOW?

Dogs have been companions to humans for over 12,000 years. Modern domestic dogs are believed to have evolved from the gray wolf. Genetic evidence suggests that the first domestication of dogs happened in Eurasia somewhere between 14,000 and 29,000 years ago.

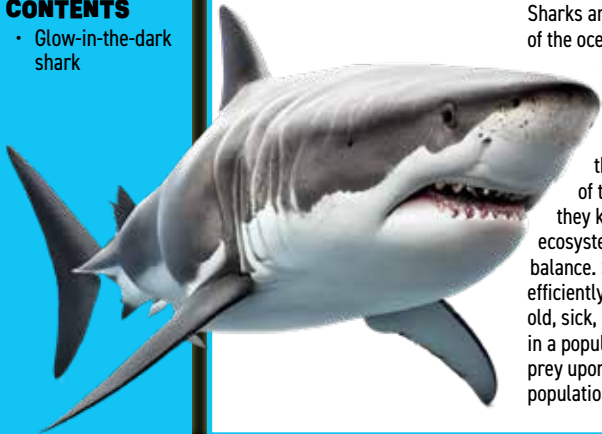


DAY 21

Shark

CONTENTS

- Glow-in-the-dark shark



Sharks are an important part of the ocean's ecosystem.

They are considered "apex predators."

This means that they are at the top of the food chain, and they keep the whole ecosystem healthy and in balance. Sharks eat very efficiently, going after the old, sick, or slower fish in a population that they prey upon, keeping that population healthier.

DAY 22

Paint a Planet Suncatcher

CONTENTS

- Planet suncatcher
- Suction cup

WHAT TO GET

- Paintbrush (from Day 1)
- Paint palette (from Day 1)
- Leftover paint (from Day 1 and 6)

See Day 1 for painting and hanging instructions.



DID YOU KNOW?

Saturn's rings are its most famous feature and are made of countless pieces of ice and rock, likely the remains of asteroids or moons that were

destroyed by the powerful gravity of the planet. The sixth planet from the sun, it sits 886 million miles (1.4 billion km) away from the sun on average.

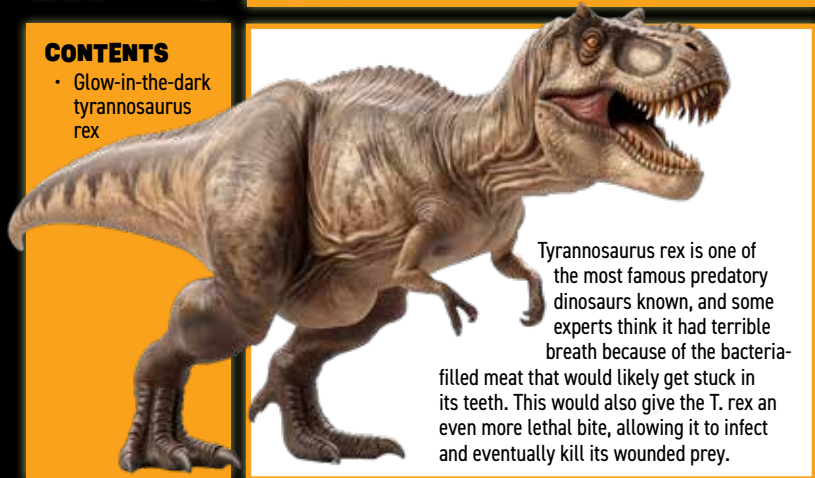


DAY 23

Tyrannosaurus rex

CONTENTS

- Glow-in-the-dark tyrannosaurus rex



Tyrannosaurus rex is one of the most famous predatory dinosaurs known, and some experts think it had terrible breath because of the bacteria-filled meat that would likely get stuck in its teeth. This would also give the T. rex an even more lethal bite, allowing it to infect and eventually kill its wounded prey.

DAY 24

Super Bouncy Ball

CONTENTS

- Glow-in-the-dark bouncy ball

WHAT TO GET

- UV light (from Day 2)



DID YOU KNOW?

The current record for the most basketball bounces in one minute belongs to Rock "Wham" Middleton of the Harlem Globetrotters. Middleton bounced the ball 762 times!





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