



Camp Invention®

RESCUE SQUAD™

START HERE



Innovation Exploration Kit™, Elevate Series

Read prior to using the product.

SAFETY AND HYGIENE



WARNING: Choking hazard—small parts. Not for children under 3 years.

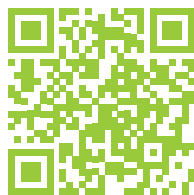
- All activities require adult supervision.
- Ages 5+.
- Read and follow all instructions.
- For safety and hygiene purposes, please be sure all children wash their hands after each activity.
- Demonstrate how to properly hold and use scissors. Do not run with scissors.
- Do not allow children to put materials in or near anyone's eyes, mouths, and ears.
- Do not play with or place plastic bags near the face or mouth.
- Ventilate the room when using markers.
- Temporary tattoos contain ethyl cellulose and castor oil. They are gluten- and latex-free. Do not apply to sensitive skin, near eyes, or if allergic to adhesive.
- Batteries are only to be used under adult supervision.

- Insert batteries with the correct polarity.
- Remove the batteries during long periods of non-use. Always remove exhausted batteries. Battery leakage and corrosion can cause damage.
- Never short-circuit the battery terminals.
- Dispose of batteries safely. Do not dispose of batteries in fire. The batteries may explode or leak.
- Coin batteries can be harmful if swallowed. Please take precautions to make sure they are not placed near the children's mouths.



For an enhanced experience,
MUSIC, POSTERS, and VIDEOS
can be found online at

[invent.org/Elevate/Rescue-Squad](https://www.invent.org/Elevate/Rescue-Squad)



PASSWORD

Use this password to access your
Rescue Squad experience:

ecosystem

**Need help? Please reach out
to our Customer Relations
Department at 800-968-4332.**

JOIN THE RESCUE SQUAD

You are the newest member of the Rescue Squad, a group of eco-adventurers who restore balance in nature. Power up and embark on three eco-missions for the adventure of a lifetime!

MATERIALS

- Animal figure
- Brown crinkle paper
- Clothespins
- Coin battery
- Craft stick
- Felt flower
- Flowerpot
- Glowing Garden Book
- Green painter's tape
- Inventor Log
- Leaf template
- Lei flower
- Markers
- Masking tape
- Paper muffin cup
- Pencil
- Rainbow LED
- Rescue Squad temporary tattoo
- Resealable plastic bag
- Scissors
- Silver conductive tape
- String

LET'S GO!

Power up with each activity to inspire a better, brighter future. To show you are an official member of the Rescue Squad, apply the temporary tattoo and wear it with pride.

Your quick problem solving and clever solutions are needed to save ecosystems across the country!

APPLY YOUR TEMPORARY TATTOO*:

- 1 Remove the clear film.
- 2 Place the tattoo on your skin, image side down.
- 3 Wet a paper towel and press lightly on the tattoo for 30 seconds.
- 4 Remove the paper towel and tattoo paper.

**Tattoos are gluten- and latex-free.*

OPERATION AIRDROP

 x200

Wildlife experts sometimes airdrop animals, like beavers, bison, and even fish, to repopulate remote locations!



OPERATION AIRDROP

- 1 Airdrop your animal figure by creating a parachute, using the plastic resealable bag. Alternatively, consider using a coffee filter, newspaper, a trash bag, or dry cleaning bag from around your home.
- 2 Use string and masking tape to connect your animal figure to the parachute.
- 3 Toss your parachute into the air to test your materials. Experiment with airdropping your animal from different heights and try to give your animal a safe landing.



Here's one example of a parachute!



If possible, play one of the **Background Music** videos while you experiment with your parachute.



- 4 Try testing a variety of lightweight materials, or changing the size and shape of your parachute so it catches more air while it drops.
- 5 Once you are satisfied with your parachute, use the **Rescue Squad map** in your Inventor Log to practice airdropping your animal figure into different Operation Drop Zones.



MISSION COMPLETE!

+100



Help the Rescue Squad restore ecosystem balance by creating a glowing plant to light up the night.

When we can use less energy for the same result, that is being energy efficient. LED lights produce plenty of useful light using very little energy.

CREATE YOUR PLANT STEM

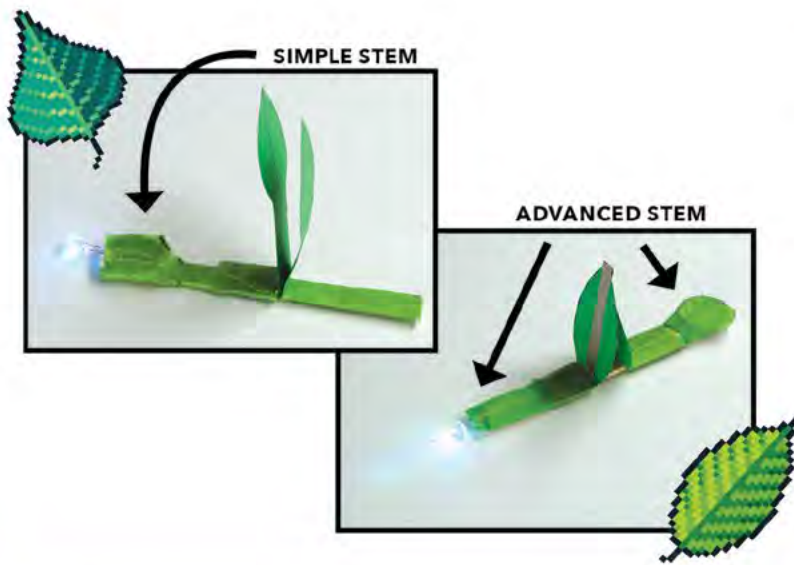
- 1 Start creating the stem for your glowing plant by finding the rainbow LED and coin battery in your kit.
- 2 Power up the LED using the coin battery by placing the longer leg of the LED on the plus side of the battery and the shorter leg on the negative side of the battery.



- 3 The **Glowing Garden Book** has detailed directions for how to make either a simple or advanced stem for your glowing plant. Choose one and follow the step-by-step instructions to create the stem.

If your LED is not lighting up, check out the troubleshooting tips in the **Glowing Garden Book**.





If possible, check out the **Glowing Plant Stem** video to see the steps for creating the advanced plant stem in action.



CREATE YOUR FLOWER

- 1 Create a unique flower for your glowing plant by using the felt flower, lei flower, or paper muffin cup.

Notice how the **felt and lei flower petals** have a hole in the center so that the LED can stick out.



- 2 If you use the paper muffin cup, cut a small slit in the center for the LED to fit through.



Check out the **Glowing Garden Book** for inspiration. Let nature and your imagination guide your design!

- 3 Poke the LED from the plant stem through the hole in the center of your flower. Then, attach the flower to the stem.



If you have a hot glue gun, have an adult help you use it to attach the flower.



- 4 Secure your glowing plant in the center of the flowerpot using the brown crinkle paper.

MISSION COMPLETE!

 +200

- 5 Congratulations on lighting the way and restoring the park's nightlife balance!

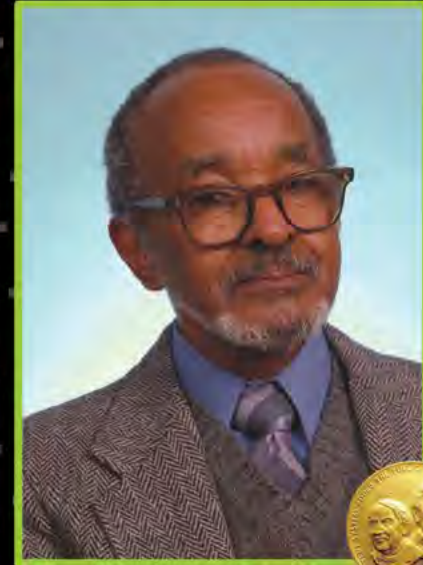


MEET THE HALL OF FAMERS



MÁRIA TELKES

National Inventors Hall of Fame® (NIHF) Inductee Mária Telkes was an innovator in solar energy. She developed an easy-to-use solar oven and a way to use solar power to purify water! Telkes also contributed to the design of a solar-based home. These innovations focused on the efficient use of a renewable resource, solar energy.



EMMETT CHAPPELLE

NIHF Inductee Emmett Chappelle discovered that a specific combination of chemicals caused a living organism to produce and emit light. While working for NASA, Chappelle began exploring the qualities of light given off by different life forms. In charge of developing instruments used to scrape soil from Mars on NASA's Viking probe, Chappelle realized how chemicals gave off a measurable light when mixed with materials containing living cells. Chappelle's innovations in harvesting the power of bioluminescence facilitated important findings in the fields of biology and chemistry.

LET'S TALK ABOUT BIOLUMINESCENCE

Did you know that some plants and other organisms can produce and emit their own natural light? This is called bioluminescence.

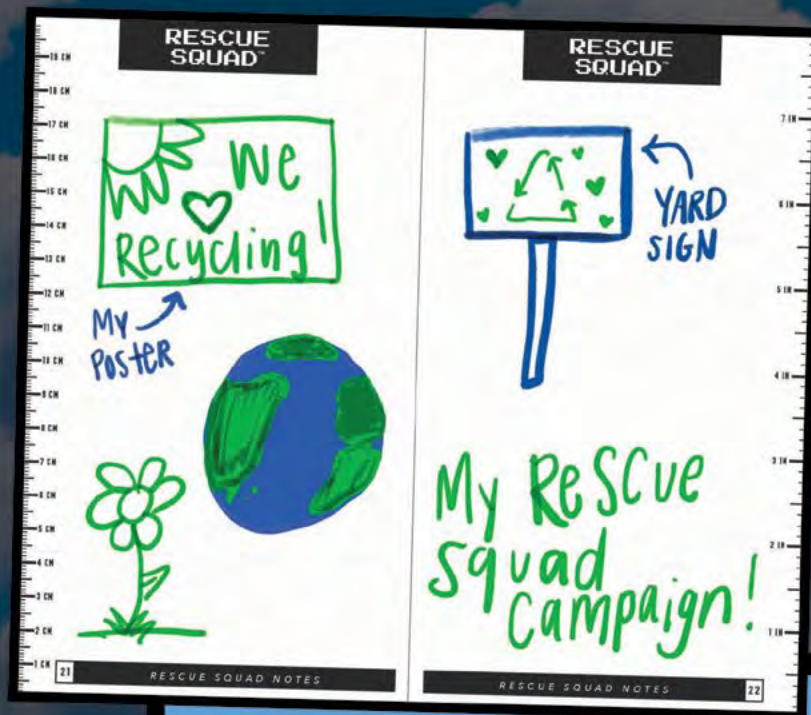
The glowing plant you just created is inspired by bioluminescent plants. Scientists are taking DNA sequences from glowing marine bacteria and inserting them into plants to enable them to synthesize and emit their own light! Some other examples of organisms with this fascinating ability are fireflies, some species of jellyfish, and angler fish. The bioluminescence is often used as a warning to repel predators or to communicate with other members of their species.





No one wants a plastic-polluted Earth! We can all make choices to use less single-use plastic, like plastic grocery bags and throw-away water bottles.

- 1 Create a campaign to reduce single-use plastic by thinking about why it's important to reduce plastic waste.
- 2 Open your Inventor Log to the **Rescue Squad notes pages**. Use markers to write or draw your campaign poster or image. To make the biggest impact with your message, use both words and pictures.
- 3 Share your campaign with someone in your home and spread the message for a positive future!



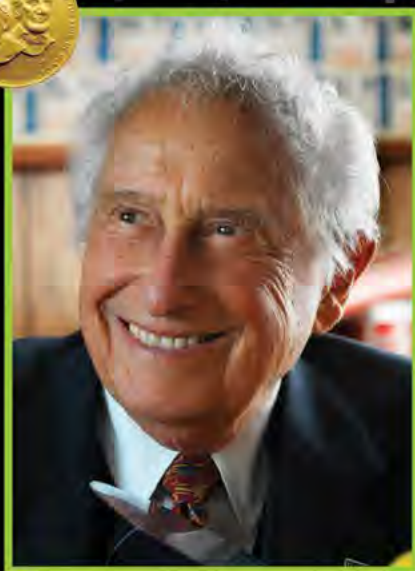
Congratulations on your amazing efforts with the Rescue Squad! Remember to think about taking care of the Earth and continue to reduce waste and protect wildlife. You can make a difference!

A fun way to spread the message is to come up with a campaign to remind us to think green and avoid plastic when we can!

Campaigns can include posters with pictures or even slogans that rhyme, like "Recycling plastic feels fantastic!"



MEET A HALL OF FAME



STANFORD OVSHINSKY

NIHF Inductee Stanford Ovshinsky was known for his passion to use science and technology to make the world a better place for humanity. Ovshinsky was a self-taught inventor and physicist who pioneered work ranging from solar energy to batteries used in electric vehicles. His work has had a great impact on energy conscious technology in modern life!

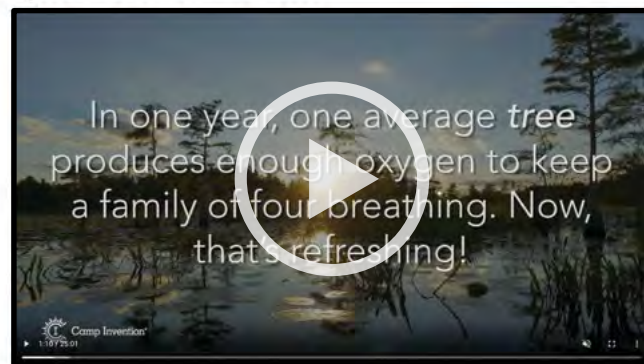
MORE TO EXPLORE

Seven generation stewardship is the idea that the current generation lives and works for the benefit of seven generations into the future. The idea is to not only think about how our choices impact us today, but also consider how they might impact your future children, grandchildren, and so on. That is a lot to think about! What would you do differently if you thought about how you might affect your great-great-great-great-great-grandchildren?

Collegiate Inventors Competition® Graduate Finalist Keith Hearon's nature-inspired invention converts lemon peels into durable plastic with lots of uses, including paints, coatings, and even medical devices. After use, the plastic is biodegradable!



If possible, check out the **Rescue Squad music videos** to discover even more about how to help the Earth and boost your eco-know-how.



RESCUE SQUAD™

YOU WIN!

PLAY AGAIN?

YES

NO



National Inventors
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Camp Invention®

Camp Invention is an educational program from
the National Inventors Hall of Fame.

Learn more at invent.org

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