



Activity Book 1

GALAXY SCOUTS

Space-Ventures
With Stella and Riley



PUBLISHED BY UW-MADISON
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ART
BY
JAN LIN



Our Mission

Galaxy Scouts Space-Ventures with Stella and Riley is a comic book series designed to get kids excited about astronomy and the sciences in general.

The comic book series strives to improve societal literacy of STEM (Science, Technology, Engineering, Math) subjects and to share the excitement and importance of STEM discoveries with younger generations. The comic books feature space adventures of Stella and Riley, and involve cutting-edge STEM topics to engage youth in science learning and discovery.

Who is the Galaxy Scouts Comic Book Series for?

The comic book series is mainly for youth with a 4th to 8th grade reading level, or who are about 9 to 13 years old. Still, we welcome people of all ages to explore these pages!

This activity book was designed to accompany Galaxy Scouts Comic Book 1 but most of the activities can be carried out without reading comic book 1. Activities are designed so you can do them individually or in groups.

Youth educators, including science teachers, librarians, and science museum program managers, may find the material useful for working with individuals or groups.

To access electronic versions of the comic books and the activity books, please go to:

<https://galaxyscouts.wisc.edu>

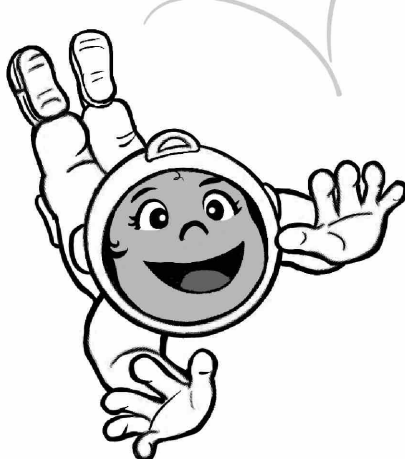
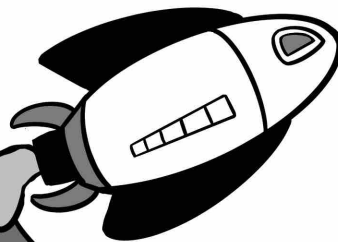




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The number of Stars reflects the reading levels. More stars means the activity requires a higher reading level.



Activity 1

Spot the Differences

Compare picture A with picture B. There are 18 differences between A and B. Find and circle all of them. Good luck!



Spot the Differences

Circle When You Find Them



Activity 2

Field Trip

Help Stella and Riley prepare for their overnight field trip to the Griffith Observatory. They are each allowed eight items in their bags. What are the best things to take? Discuss the choices you made with your friends and have fun!



Activity 3

Color By Numbers

Use this color chart to fill in the picture.

1	2	3	4	5	6	7	8
Black	Blue	Purple	Red	Orange	Yellow	Brown	Green



Activity 4

The Spacesuits

Part 1



Spacesuits are one of an astronaut's most important tools. It is their home away from home. It keeps them comfortable during hot and cool temperatures.

Spacesuits carry a supply of water and helps them recycle their body waste. It allows them to communicate with others. It protects them from radiation and other dangerous things in space. They are full of pockets where a variety of tools can be tucked away. Spacesuits have changed a lot over time. Let's take a look at an early version of a spacesuit and compare it to mine.

What differences do you see? Spacesuits are getting smaller and lighter but stronger as well. What kind of changes will be made to spacesuits in the future?

Old Suit

Oxygen tank

Helmet camera

Communication device

Camera

Gloves

Sample pockets

Check list and scissors pocket

Lunar boots



New Suit

Computer

Helmet camera

Meteor-proof crash helmet

Infrared visor activator

Emergency recall button

Jet boots

Life support



The Spacesuits

Part 2

Use this page to draw yourself, your favorite pet or someone you know in a spacesuit. Label any interesting changes you would make in your spacesuit design. Maybe they could have a jetpack or a space skateboard. What other cool ideas can you come up with?



Galaxy Word Search

Activity 5

Hi, I'm Mr. Halley.

Woof!

Oh, yes.
And this is Luna.



There are 16 possible words to find in the word search. They may be up, down, across, diagonal or even backwards. Circle the words that you find. Check them off in the word list below.

GRIFFITH
MOON
SATURN
MATTER

STAR NURSERY
MARS
IRON OXIDE
NEPTUNE

MERCURY
PLUTO
VENUS
GRAVITY

PLANETS
HALLEY
CURIOSITY
TELESCOPE



O	X	R	P	L	O	I	B	P	X	O	Y	R
W	E	H	L	L	G	R	I	F	F	I	T	H
B	P	S	A	T	U	R	N	C	R	C	I	Q
M	O	O	N	L	K	T	U	T	O	M	V	M
O	C	L	E	A	L	R	O	X	K	E	A	A
K	S	K	T	A	I	E	S	U	N	R	R	T
R	E	A	S	O	R	A	Y	U	S	C	G	T
Z	L	Y	S	B	E	Y	S	K	C	U	S	E
Y	E	I	E	D	I	X	O	N	O	R	I	R
S	T	A	R	N	U	R	S	E	R	Y	J	S
Y	J	E	N	U	T	P	E	N	C	N	O	R

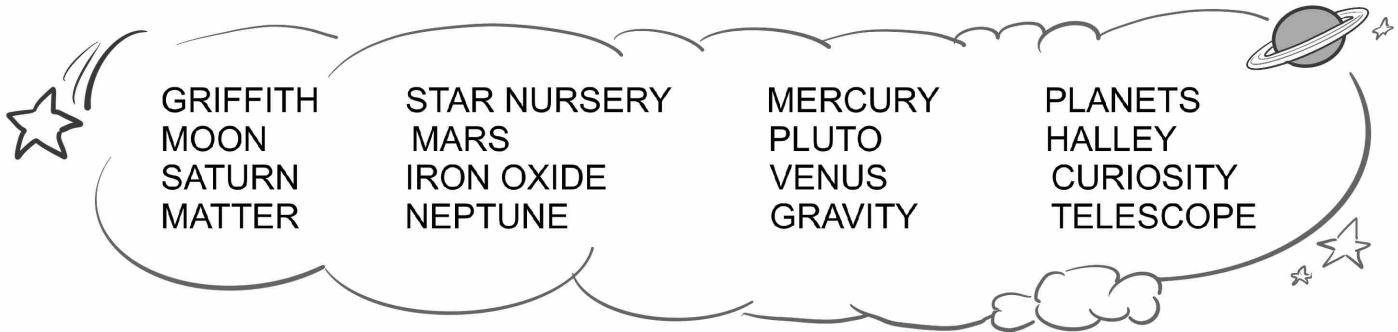


Activity 6

Fill in the Blanks



ONLY TEN OF THE WORDS FROM THE LIST BELOW CAN BE CORRECTLY USED TO FILL IN THE BLANKS.



1. The _____ Observatory is in Los Angeles, California.
2. The Zeiss _____ is very famous for helping scientists explore space.
3. _____ has rings and is only one of five _____ to be visible with the naked eye.
4. The name of the rover on Mars that greeted Stella and Riley is _____.
5. The _____ of Mars is only 62% of that on Earth.
6. Mr. _____ is an intergalactic tour guide.
7. _____ makes Mars look red.
8. The universe contains a lot of hidden dark _____.
9. Stella and Riley traveled to the _____.



5 out of 10 correct is Junior Scout.
7 out of 10 correct is Senior Scout.
10 out of 10 correct is Master Scout.
How did you do?

Activity 7

Make Your Own Galaxy



(Name of your galaxy)





Instructions

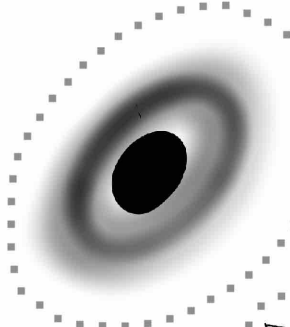
for making your own galaxy



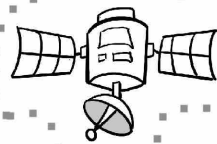
For this activity, in addition to colored pencils, crayons, or markers, you will also need a pair of scissors and some glue.



First, color the objects you want to use in your own galaxy. Next, cut them out and glue them on the galaxy page on the left. Draw or paste a picture of your face onto the astronaut's helmet. After you are done, give your galaxy a name.



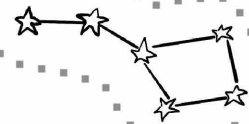
Black Hole



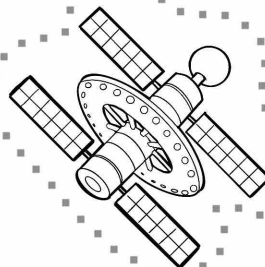
Satellite



Satellite Dish



Big Dipper



Space Station

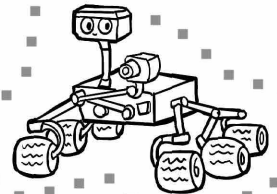


Meteor

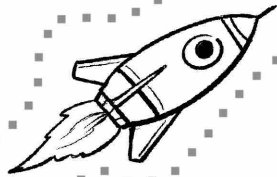


Earth

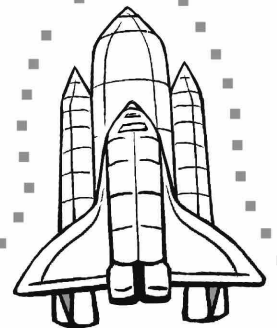
Astronaut



Rover



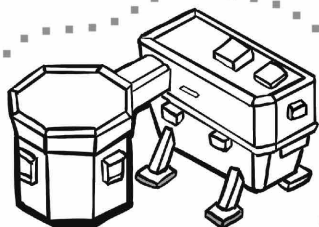
Rocket



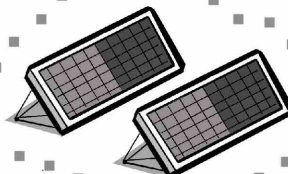
Space Shuttle



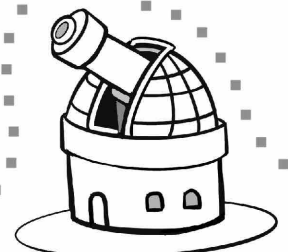
Asteroid



Space Habitat



Solar Panel



Observatory





JOIN STELLA AND RILEY ON THEIR GALAXY SCOUTING ADVENTURES!

Galaxy Scouts Space-Ventures is a comic book series for kids, introducing astronomy and other sciences in a fun-filled ride that is full of adventures combined with cutting edge STEM topics and discoveries. Take a journey to the stars with Stella and Riley and many other characters. The journey is just beginning. So fasten your seatbelts. It's time to blast off!

GALAXY SCOUTS TEAM

Snežana Stanimirović is a professor at the University of Wisconsin Madison who studies how molecules and stars form in the interstellar medium. She is the creator and an advisor for the comic.

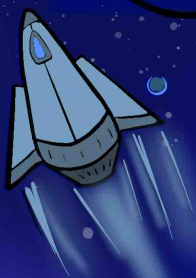
Rebecca Cors is a social scientist and evaluator at Wisconsin Center for Education Research who studies how people learn about, and co-exist with, science and nature. She is the evaluator and an advisor for the comic.

Kay Kriewald is an outreach specialist at the University of Wisconsin Space Place in Madison. She is the field tester and an advisor for the comic.

Amy Gaeta is a social science researcher, practicing poet, professional editor, and disability rights activist. She's the editor and proofreader for the comic.

Jan Lin has illustrated many children's educational books in Taiwan. She is the illustrator and art director for the comic.

Robert Tetzner is the director of an ESL school in Taiwan. He also writes and illustrates children's books and magazines. He is the chief writer and activity designer for the comic.



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