

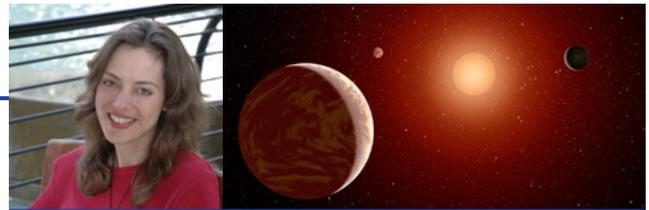


# Jet's Scrapbook from Bortron 7

Use your imagination to draw a picture of Jet's home planet.

## GET READY

In *Ready Jet Go!*, Jet and his family don't come from Earth, but instead they come from a make-believe planet called Bortron 7. Bortron 7 is the 7th planet orbiting a make-believe red dwarf star called Bortron. Although Bortron 7 isn't a real place, scientists have evidence that some actual red dwarf stars have planets too. But a planet orbiting around a red dwarf star would be a very different place to live than Earth. For one thing, the sunlight from a red dwarf star would be redder and cooler than our Sun's warm yellow-white glow. Since plants use sunlight to grow, they would probably look very different than plants on Earth. Maybe they would be red or purple instead of mostly green!



## FUN FACTS from Astronomer Amy Mainzer

Image credit: NASA/JPL-Caltech

Did you know that not all stars are yellow-white like our Sun? In fact, most of the stars in our Milky Way galaxy are not nearly as warm as our Sun. A lot of them are dim red stars that are much smaller and cooler than the Sun. They are still very hot, but not as hot as the Sun. We call these red dwarf stars; but even though they're called dwarf stars, they're still way bigger than a planet! Red dwarf stars are more common in our galaxy than big yellow stars like our Sun.

## EXCELSIOR! LET'S HAVE FUN

Jet wants to show Sydney, Sean and Mindy what it looks like on his home planet of Bortron 7. Can you help him?

1. Print out Jet's scrapbook page.
2. One big difference between Earth and Bortron 7 is that Bortron 7 has a red sun! Read the information from astronomer Amy Mainzer about a red sun.
3. Draw a picture of what you think Jet's home planet of Bortron 7 might look like!

## TAKE IT FURTHER

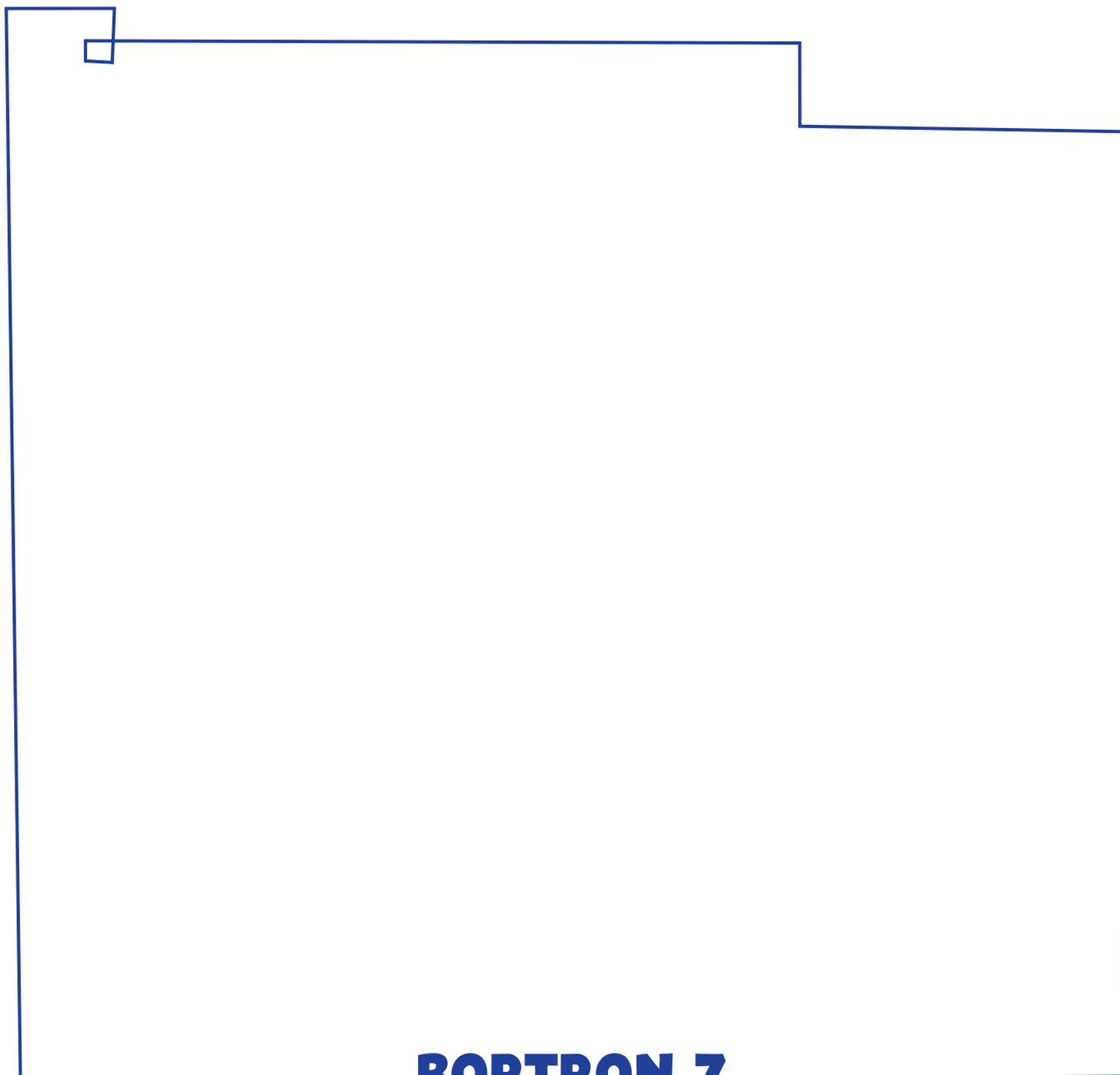
In Jet's make-believe solar system, there are at least 9 planets orbiting their red dwarf star Bortron. Jet and his family are from the 7th planet. What do you think the other planets in his solar system are like? Big? Small? Gas planets or rocky? Could several of them have life on them or is number 7 the only one with life on it? You can use your imagination to dream up an entire solar system! Just print out multiple pages of Jet's Scrapbook page and create your own travel journal showing what each of the Bortron planets might look like.





# Jet's Scrapbook from Bortron 7

Use your imagination to draw a picture of Jet's home planet.



## BORTRON 7