AUNIVERSE OF STORIES



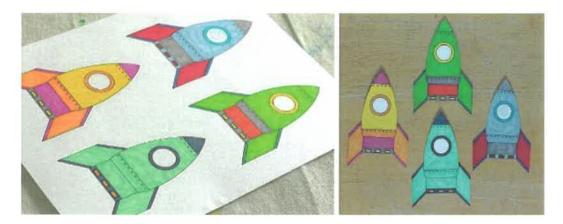
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Presented by Esther Birkey
Bluffton Public Library
birkey@blufftonpubliclibrary.org

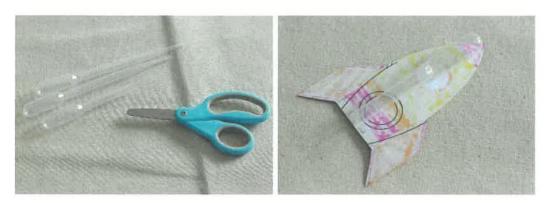
20 Passive Program Ideas

- 1. Straw Rockets
- 2. Build a LEGO Solar System
- 3. Space Bookmarks
- 4. Space Story Stones
- 5. Decorate alien underpants.
- 6. Build a Spaceship with a cup of LEGO
- 7. Star Wars I Spy Game
- 8. Indoor Star Gazing Hunt for constellations
- 9. Space themed mazes and word searches
- 10. Design an Alien
- 11. Salt Dough Earth (Here We Are by Oliver Jeffers)
- 12. Color by Code Space themed Math activities
- 13. Planet Puzzles
- 14. Activities based on 'Whatever Next' by Jill Murphy
- 15. Draw a Story Map
- 16. Pipe Cleaner Constellations
- 17. Space Mandalas and Zentangles
- 18. Rocket Sight Words or Names
- 19. Constellation art with rocks and sidewalk chalk.
- 20. Balancing Robot

Color the rockets and cut them out.



Cut the bottom off a plastic pipette and attach it to the back of a rocket using tape or glue dots.



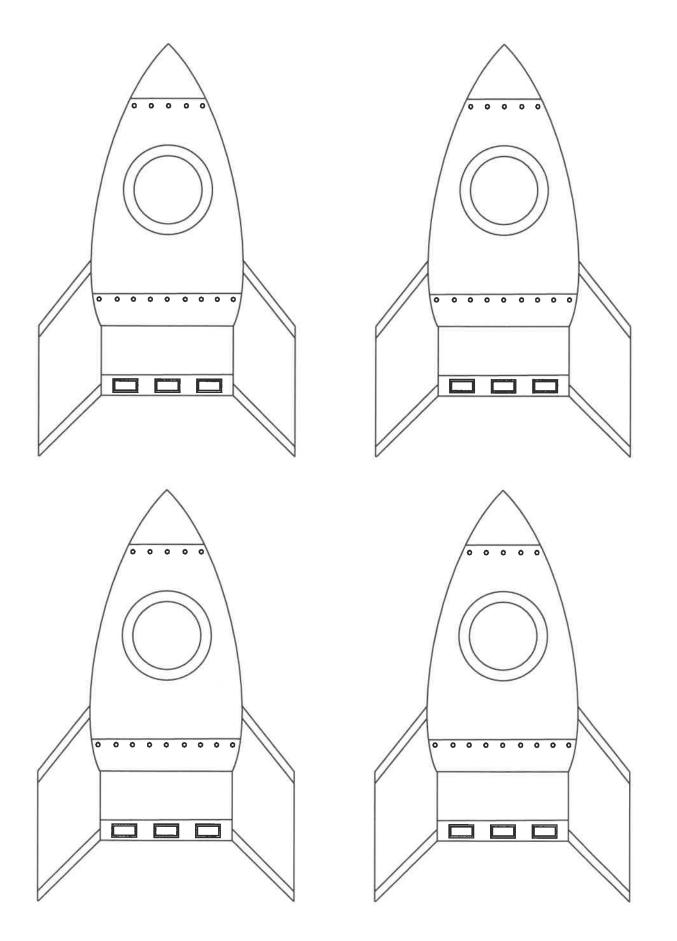
If you don't have any plastic pipettes handy, you can use a straw instead. (Just make sure this straw is wider than the other straw you'll be using for launching.) Cut the straw to fit the length of the rocket and tape one end shut so it's completely sealed. Attach it to your rocket with glue dots or tape.

Slip a straw into your pipette, and you're ready to launch.

Give your straw a big puff of air, and watch it take off!







©2015 Buggy and Buddy http://buggyandbuddy.com

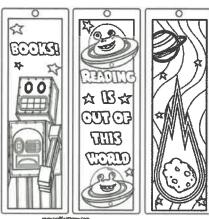
2. LEGO Solar System

https://ideas.lego.com/projects/0b06291a-ff6b-4777-a42e-b1b5c79f02d4 https://www.kitchencounterchronicle.com/lego-solar-system/ https://jkbrickworks.com/earth-moon-and-sun-orrery/ https://www.goutube.com/watch?v=O1EjyXO3hm0&vl=en



3. Space Bookmarks





See PDF.

Can be downloaded for free from https://www.reallifeathome.com/space-bookmarksreading-log/

4. Space Story Stones

http://www.gouclevermonkey.com/2016/01/space-pretend-play.html

To make your own space themed story stones, you will need:

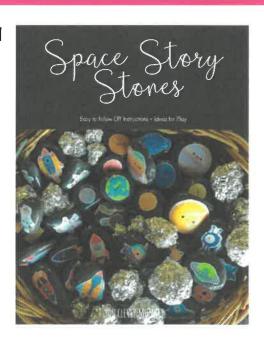
- clean dry flat stones (these came from a garden supply store)
- Mod Podge
- paint brush
- space pictures

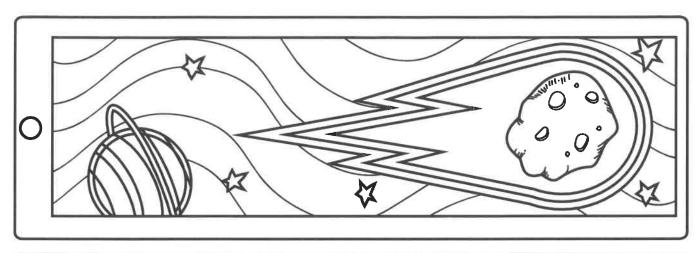
Simply cut out the pictures and then match them to a similar sized stone.

Paint the stone with some Mod Podge then lay the image on the Mod Podge while still wet then cover the picture with another layer of Mod Podge.

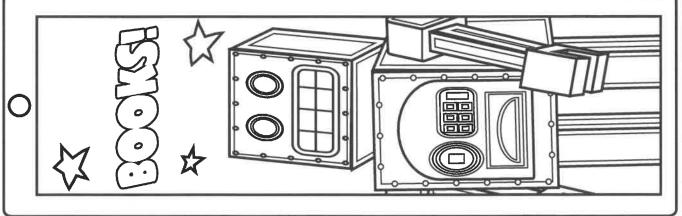
Leave them to dry on some baking paper or an old plastic shopping bag - something the Mod Podge won't stick to

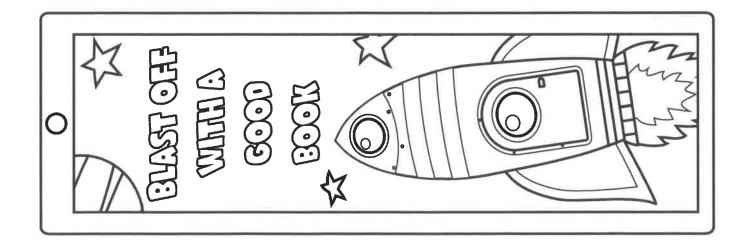
When dry, re-coat the entire stone with another later of Mod Podge. Start on the reverse side then front before leaving to dry completely.

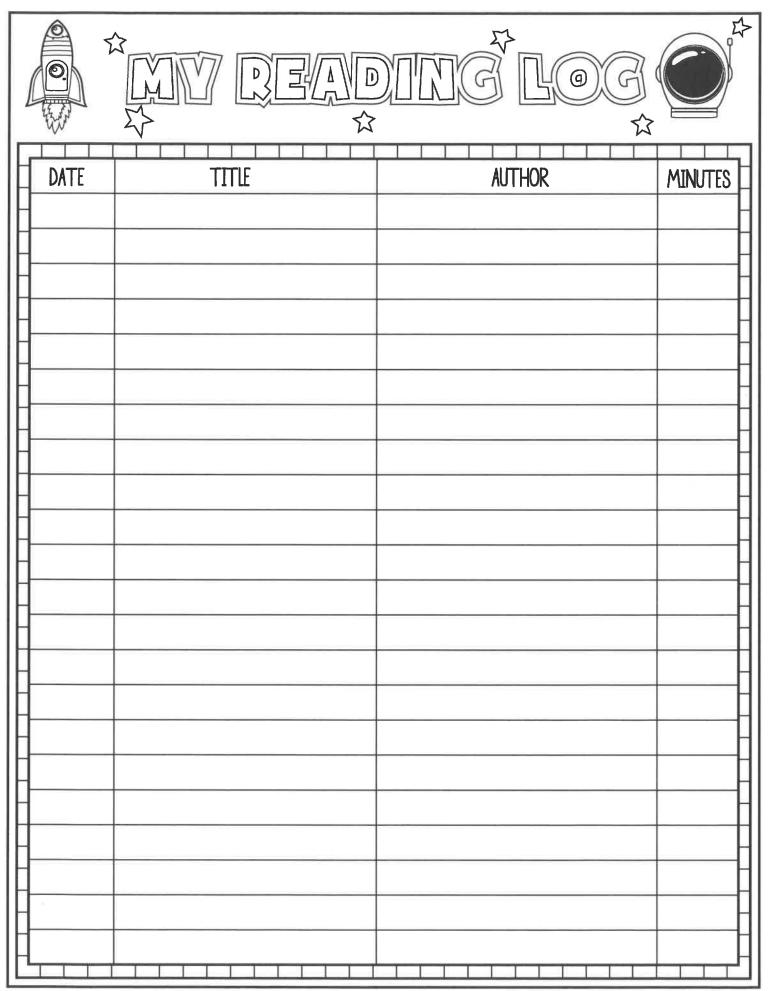












5. Decorate Alien Underpants



Activity based on 'Aliens Love Underpants' by Claire Freedman

See PDF.

https://clubs-kids.scholastic.co.uk/clubs_assets/50581 https://clubs-kids.scholastic.co.uk/clubs_assets/50583 http://www.hellowildthings.com/2013/01/underpants.html?m=1

6. Build a Spaceship with a cup of LEGO



Challenge patrons to create a spaceship with just one cup of LEGO.







7. Star Wars I Spy Game

Free Printable https://www.simpleeverydaymom.com/star-wars-free-printable-i-spy/

See PDF.





DESIGN YOUR OWN MERPANTS



MWMMBFAMABIF

STAR WARS I SPY





STAR WARS I SPY ANSWER KEY



(a) x 3 (b) x 6 (b) x 7 (c) x 4 (c) x 5

8. Indoor Star Gazing

Idea from https://tscpl.org/events/stars-scavenger-hunt

Create 10 constellations in your library and have patrons complete a scavenger hunt to find all the summer sky constellations. Reward patrons with small incentives or a prize drawing.



9. Space Themed Word Searched & Mazes (FREE)

https://www.nasa.gov/centers/johnson/about/resources/jscfacts/activity_coloring_sheets.html https://resource-bank.scholastic.co.uk/resources/254798

https://www.kidspuzzlesandgames.co.uk/themes/space

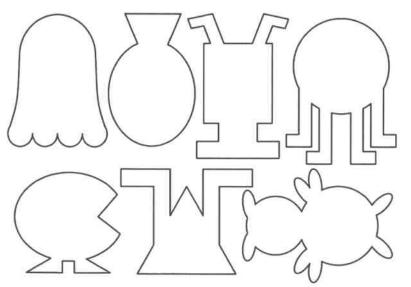
http://www.thekidzpage.com/colouring_menus/activities/pages/c0083f.htm

https://www.nasa.gov/audience/foreducators/5-8/index.html

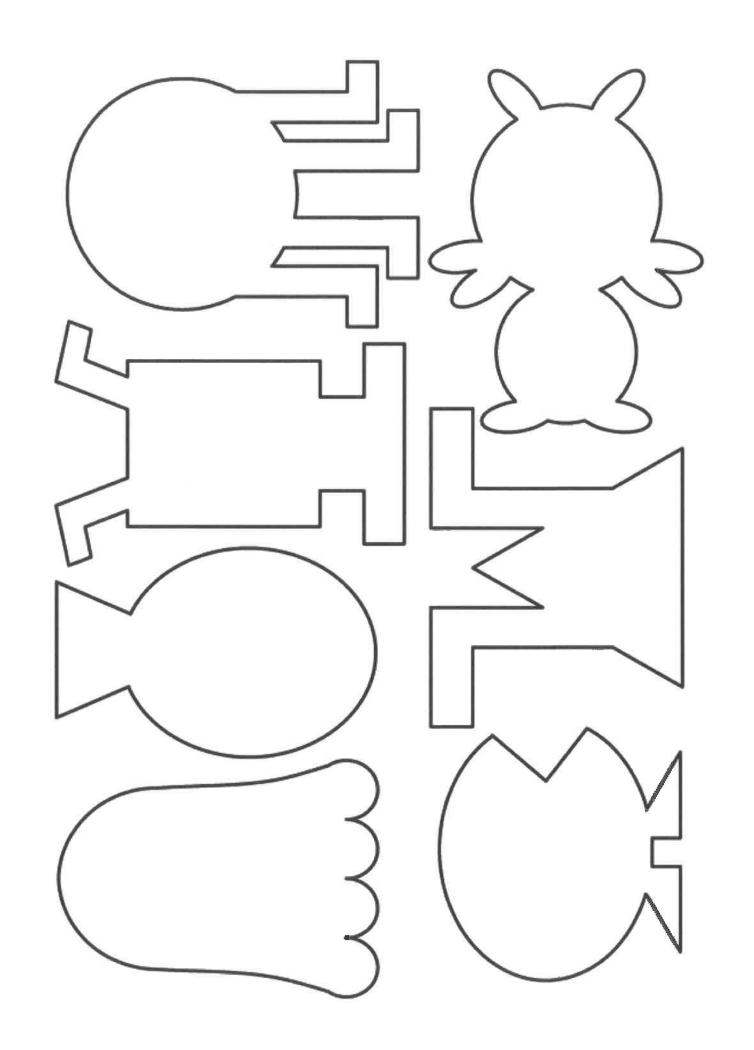
https://www.nasa.gov/centers/johnson/about/resources/jscfacts/activity_coloring_sheets.html

https://spaceplace.nasa.gov/posters/en/

10. Design an Alien



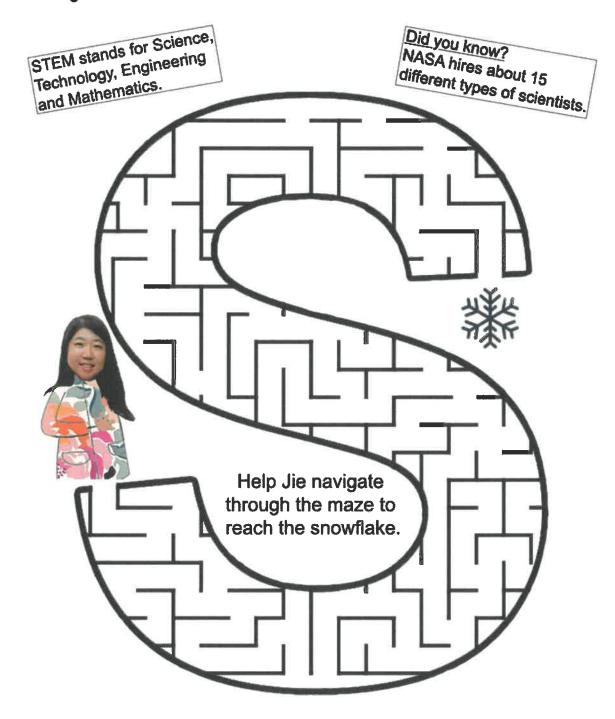
See PDF.



A-MAZE-ING WOMEN OF STEM: SCIENCE



NASA Scientist Jie Gong studies Earth's atmosphere. She uses data from satellites to understand where and when snow might fall. She also studies ice clouds and hail.



Want to learn about women doing amazing things in science? Visit https://www.nasa.gov/education/womenstem/women-in-science.

11. Salt Dough Earth ('Here We Are' by Oliver Jeffers)



https://booksandgiggles.com/2017/11/peace-on-earth-ornaments.html/

Mix up some salt dough and work blue food coloring into it to get a bright shade of blue.

Form a 1-inch ball of dough, and set it on parchment paper. With your fingers, flatten the ball into a 2-inch circle.

Pull out some blue dough and work in yellow food coloring to turn it green.

Shape the green dough into bumpy continents and gently press it onto the blue dough.

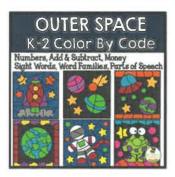
Press beads and "jewels" onto the green dough. Pretend they're mountains!

SEND HOME WITH BAKING INSTRUCTIONS

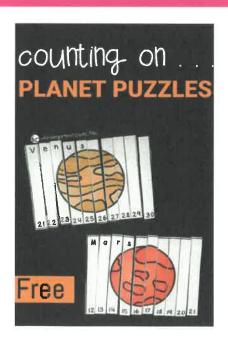
Bake at 200 degrees Farenheight for 2-3 hours, until hard and dry on both sides. Make sure your parchment paper doesn't curl up into the ornaments. Let cool, then paint with sparkle glaze or another sealer. Let dry.

12. Color by Code Printables

https://viewsfromastepstool.com/space-coloring-pages/ http://www.homemade-preschool.com/color-by-number-space.html https://www.kittybabylove.com/27-helpful-subtraction-colors-by-number/



13. Planet Puzzles



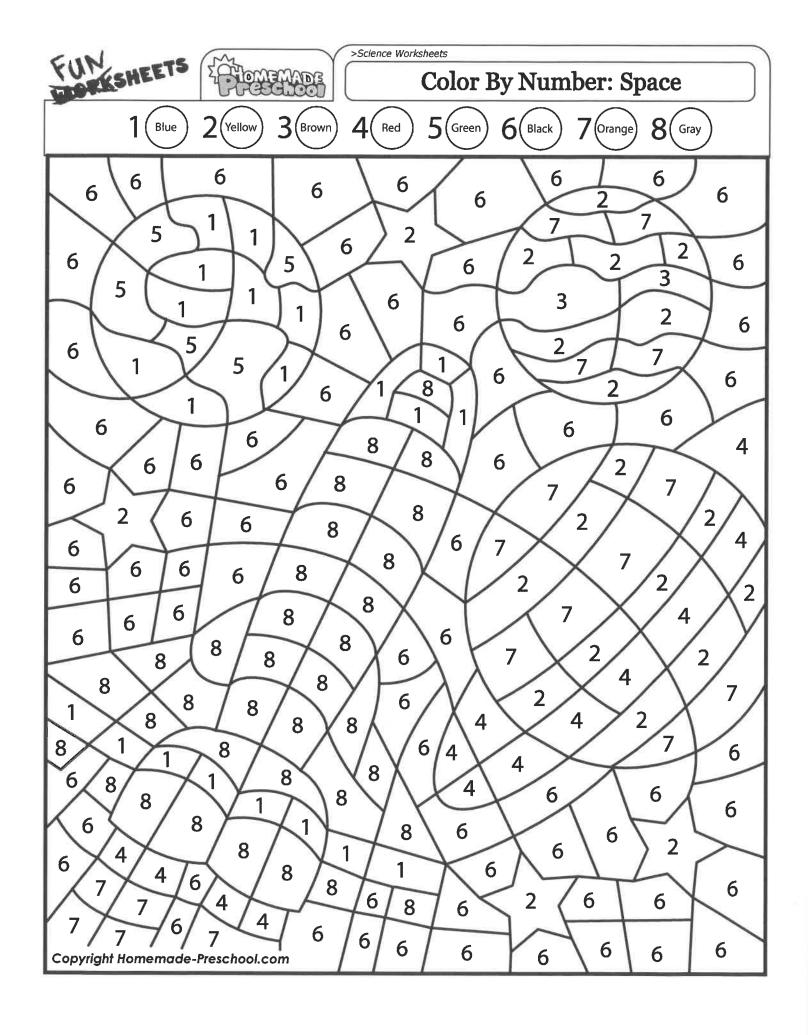
FREE Download

https://thekindergartenconnection.com/counting-on-planet-puzzles/

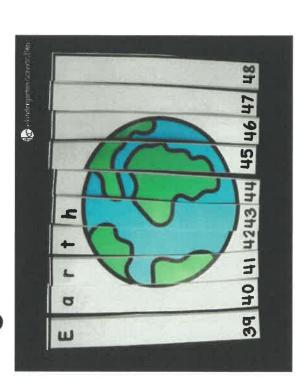
Use solar system pictures to create your own jigsaws.

MORE PUZZLES

https://www.craftionary.net/solar-system-activities-free-printables/



Thank you for Downloading! Counting On Planet Puzzles



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Fonts and Graphics (Click for info)

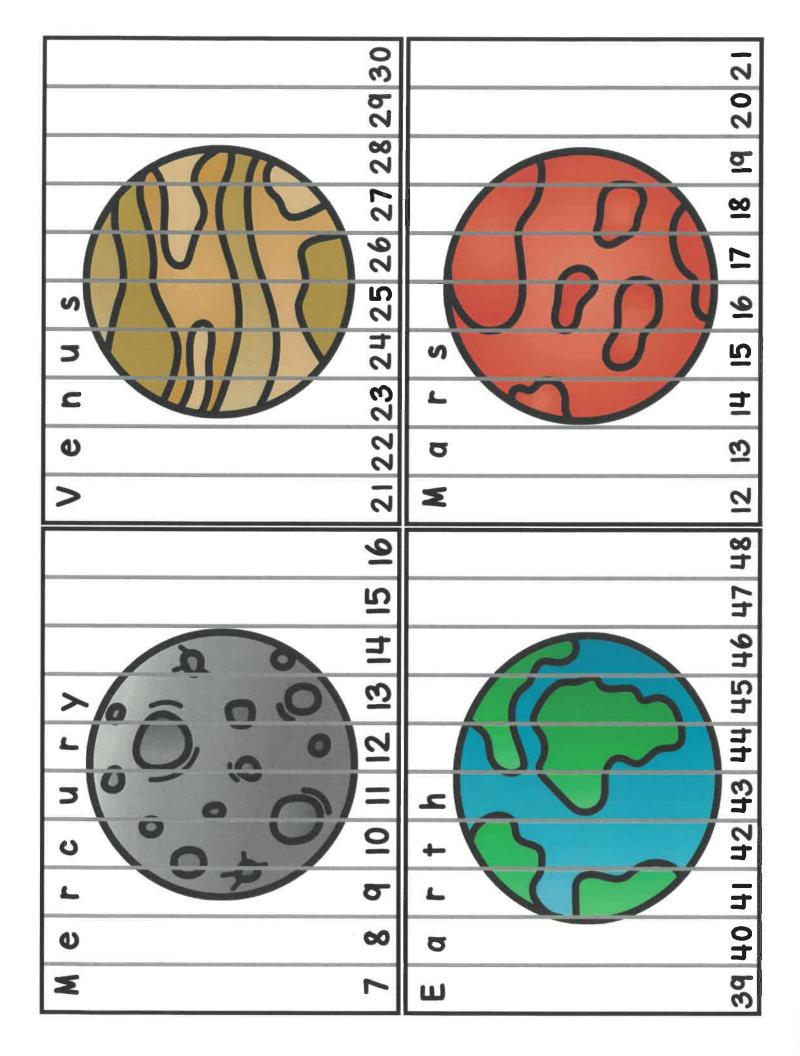


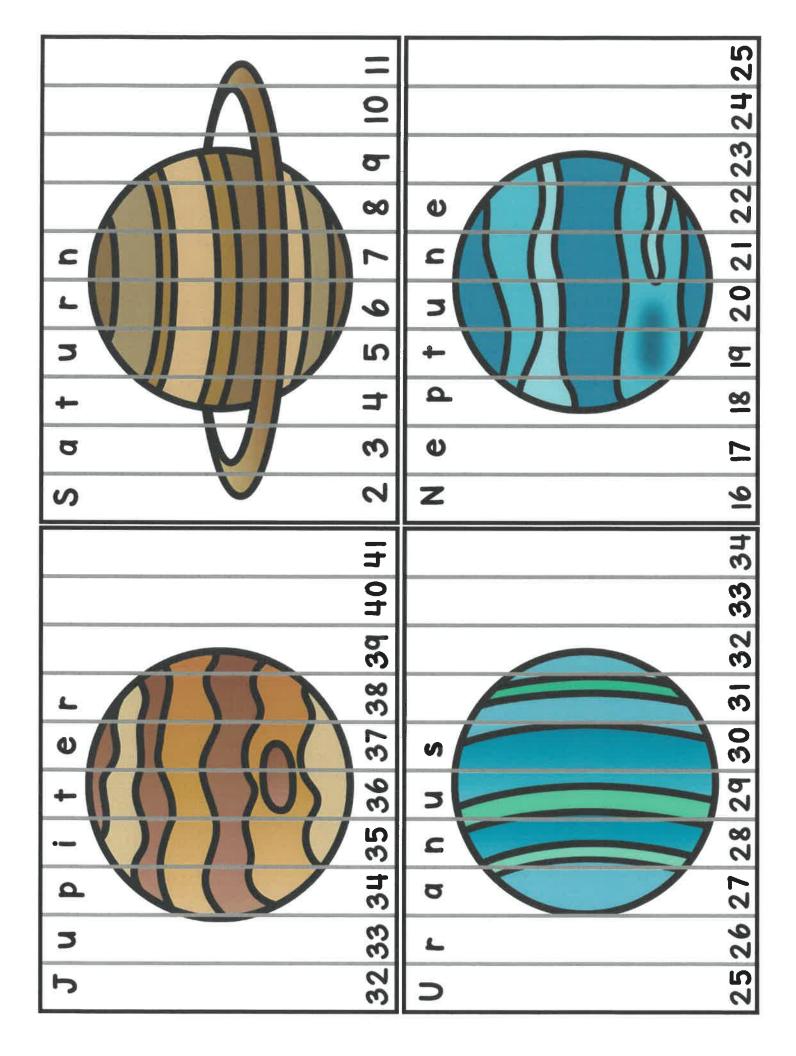




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respecting my work





14. Activities based on 'Whatever Next' by Jill Murphy





Sequencing Activity https://www.tes.com/teachingresource/whatever-next-picture-sequencingactivity-6293186

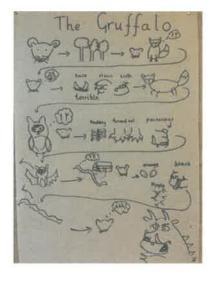
http://www.teachingideas.co.uk/library/books/whatever-next

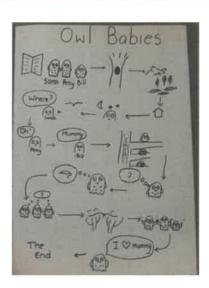
https://www.youtube.com/watch? v=Nn73STXrPP0

15. Draw a Story Map

http://www.readingrockets.org/strategies/story_maps

See Examples



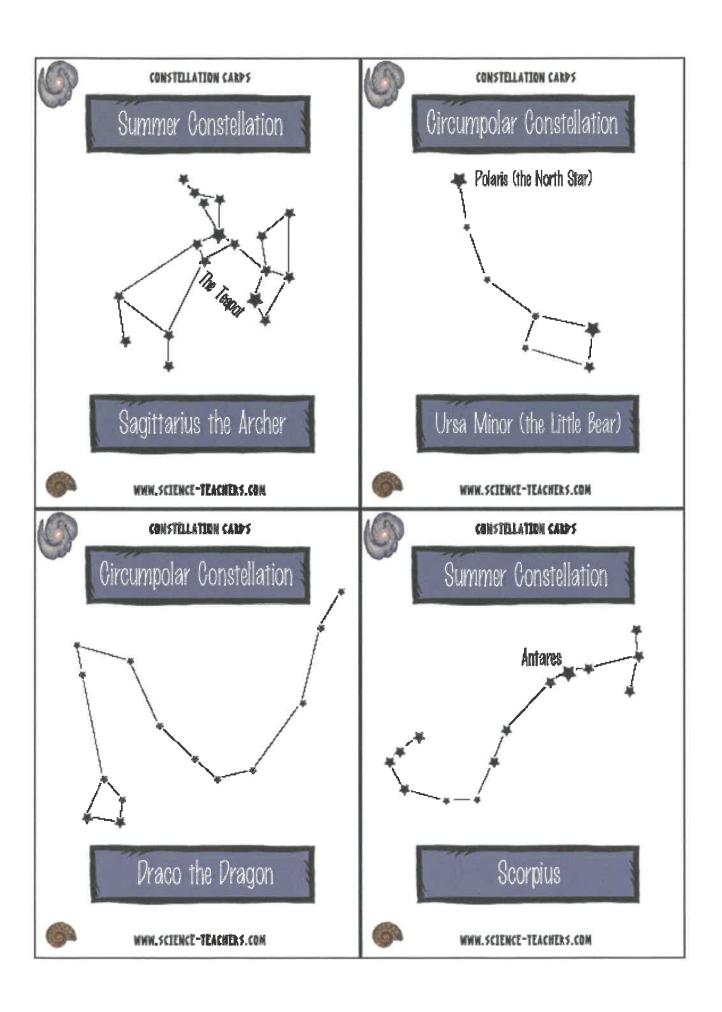


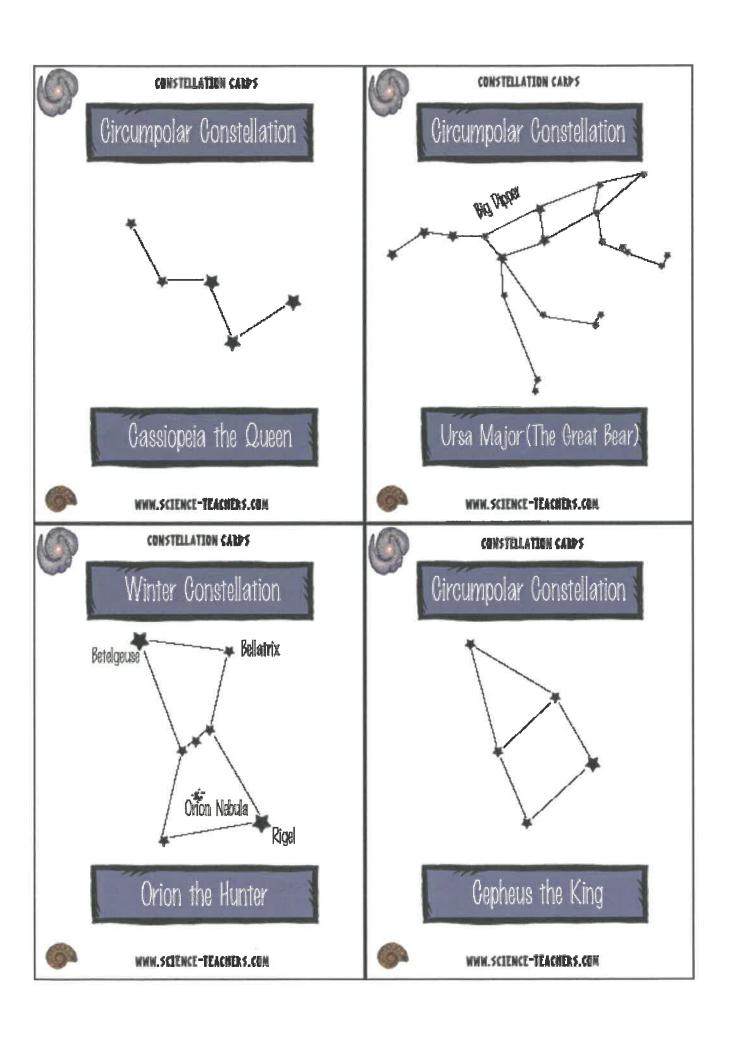
16. Pipe Cleaner Constellations

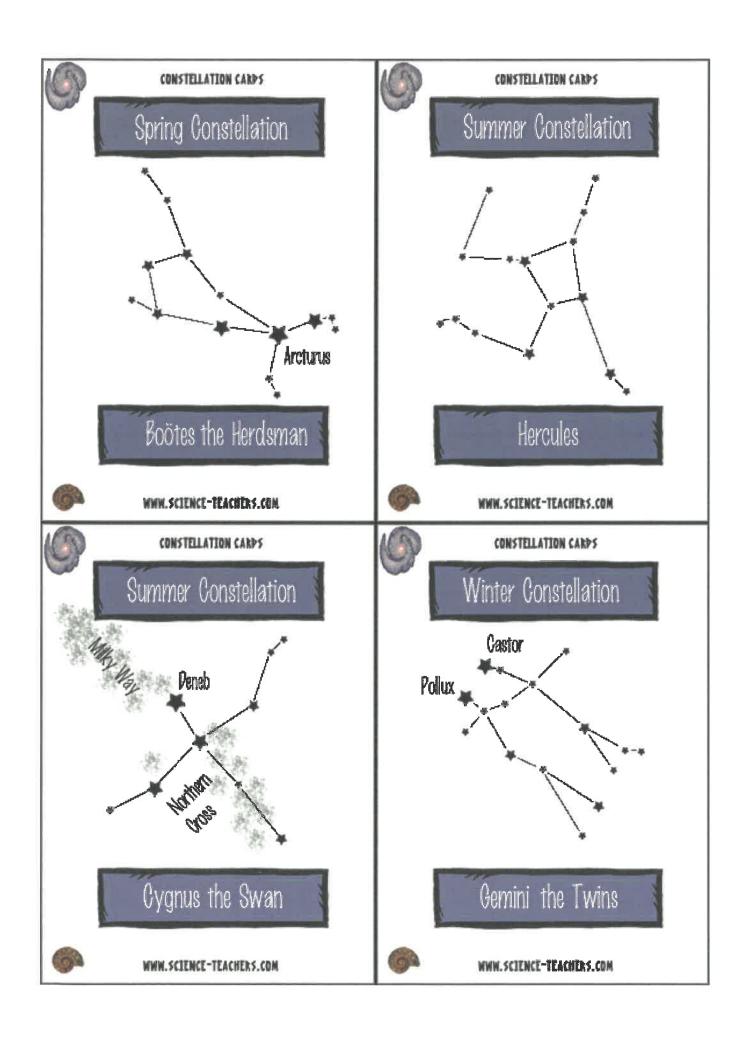


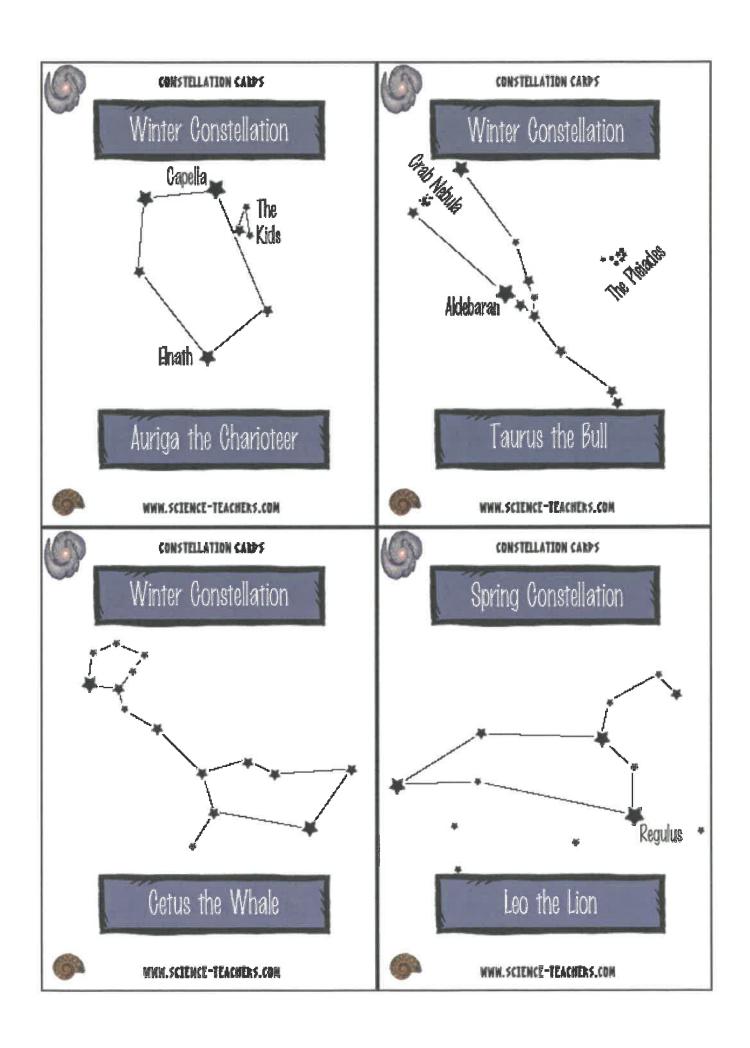
https://www.123homeschool4me.com/pipe-cleaner-constellations_61/http://www.science-teachers.com/constellation_flashcards.htm

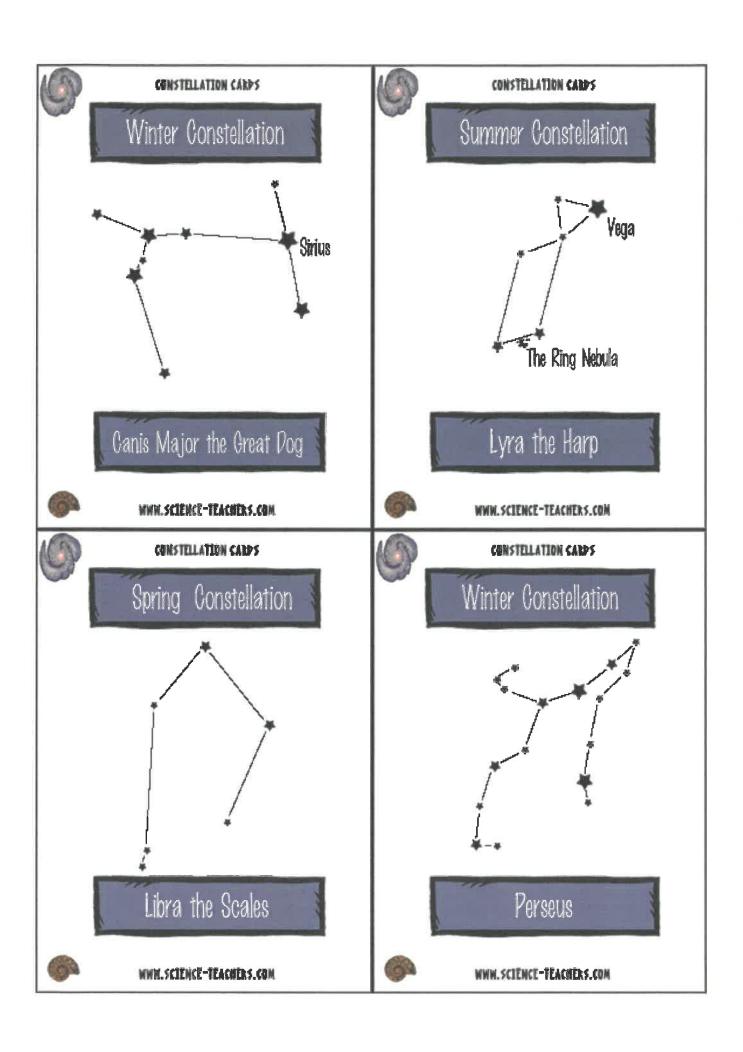
See Constellation Cards.

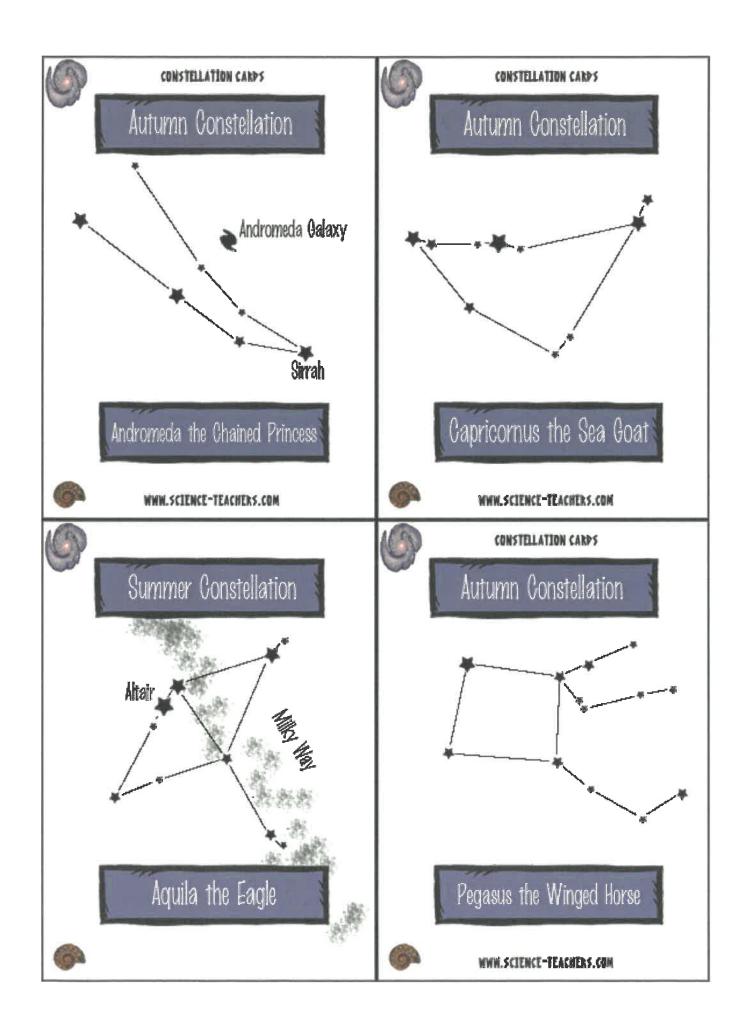






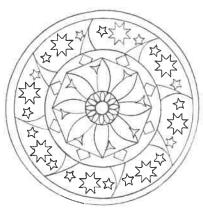






17. Space Mandalas and Zentangles









18. Rocket sight words or names

https://mrsplemonskindergarten.com/2017/02/tot-school-space.html



19. Constellation art with rocks and sidewalk chalk.

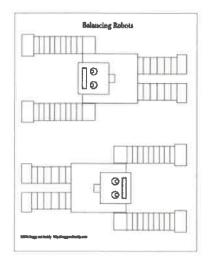


http://creeksidelearning.com/constellationart-with-rocks-and-sidewalk-chalk/

See Constellation Cards.



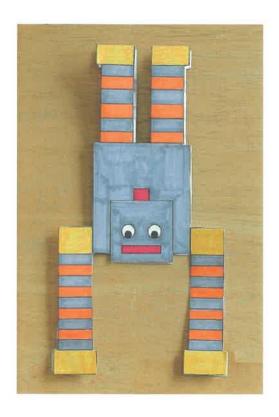
20. Balancing Robot

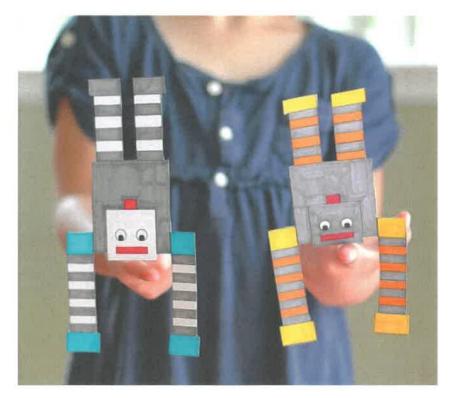


https://buggyandbuddy.com/science-kids-balancing-robot-free-printable/ Print robots on white cardstock. (see PDF.) Cut out the robots.

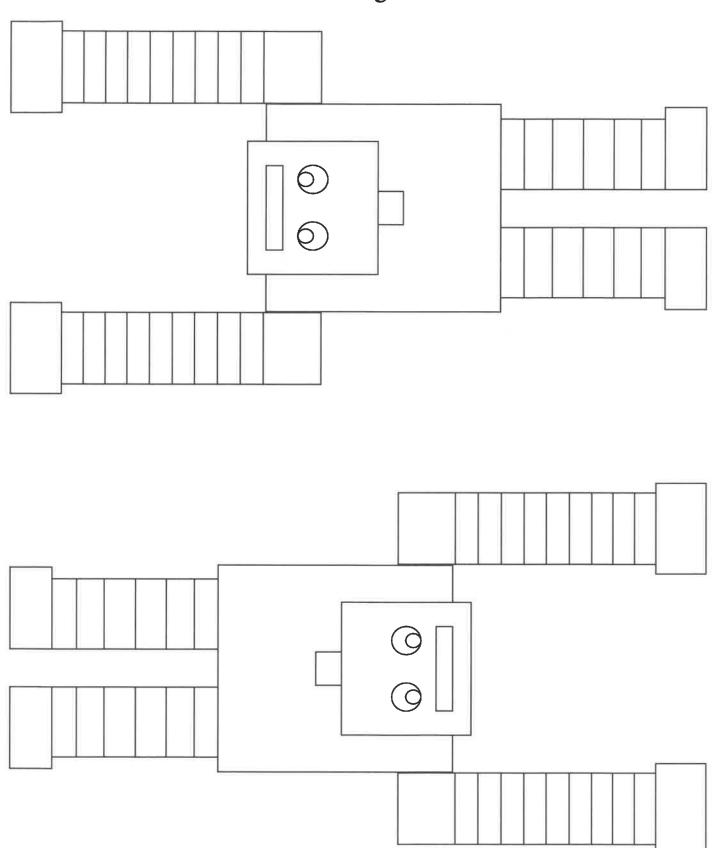
To make the robot balance you'll want to stick two pennies onto the hands of the robot. (You can use tape to do this, but removable poster putty gives kids a chance to explore balance by moving the pennies to various locations on the robot.)

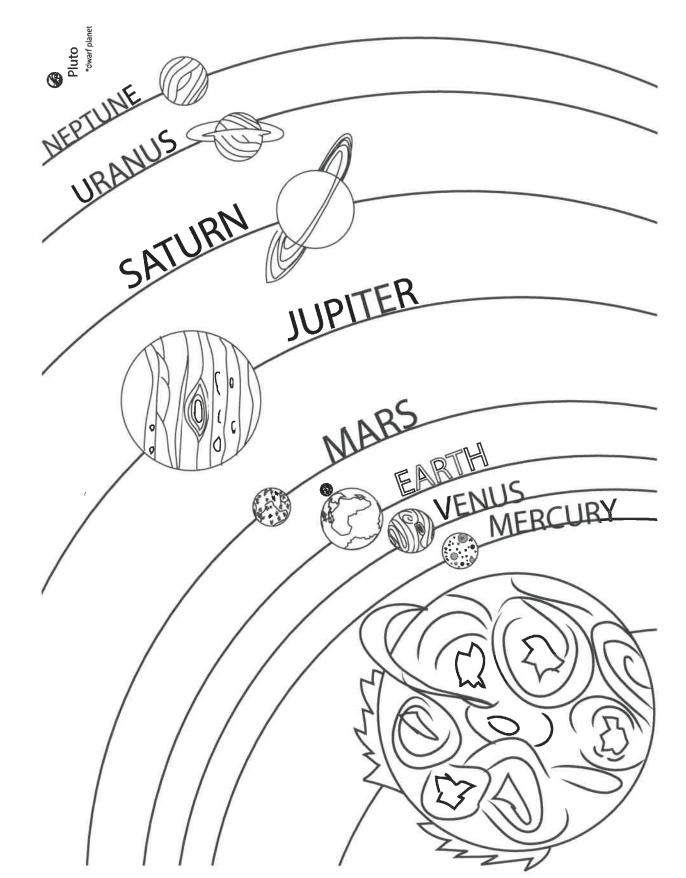
Flip your robot over to the back. Place a small piece of poster putty on the hands of the robot. Press a penny onto each hand. Stick some more poster putty on the pennies. Press the second robot onto the back.





Balancing Robots

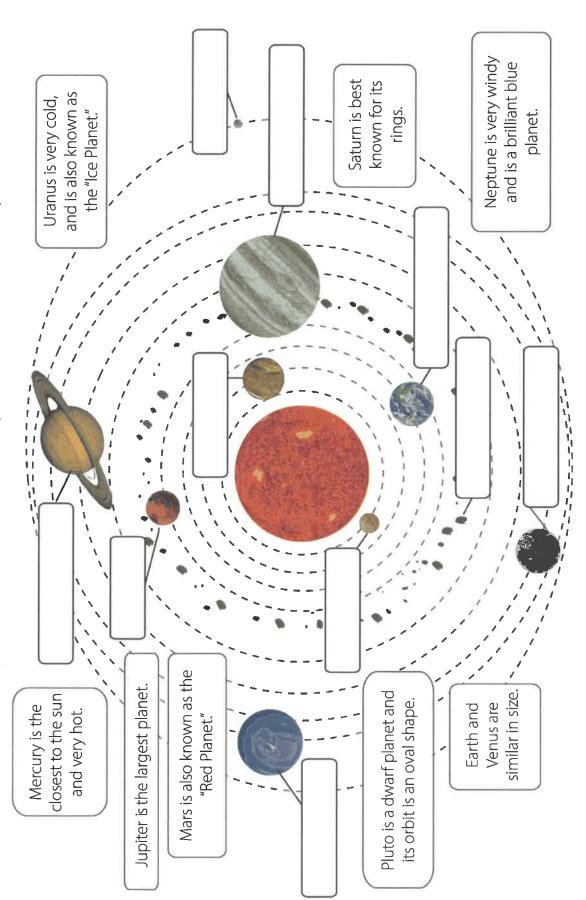






EXPLORE OUR SOLAR SYSTEM

Our solar system contains nine planets. The asteroid belt separates the inner and outer planets. Directions: Label the 9 planets. Use the hints to help!

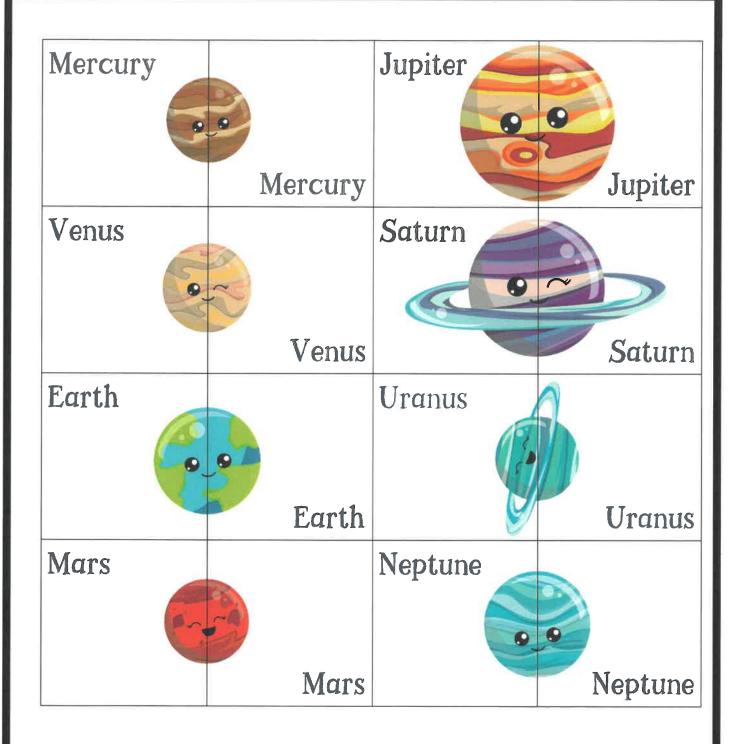




Planet Matching

Game

Check out more fun: www.etsy.com/shop/twitchetts



Cut along the solid lines.

Two ways to play:

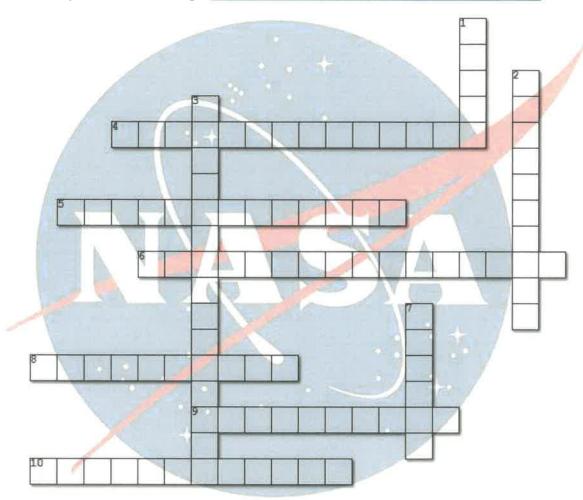
Puzzle - Match the planet halves together.

Memory - Flip all the pieces over and mix them up. Flip 2 pieces over at a time until you make a match.

Black History Month 2019

From astronauts to scientists to leaders, African-Americans have played a vital role in NASA's achievements. Learn more about their contributions by visiting the image gallery at the link below to fill in the crossword puzzle.

Black History Month—NASA Images https://www.nasa.gov/image-gallery/black-history-month



Across

- 4. First African-American astronaut
- 5. African-American astronaut who became NASA administrator
- 6. Presidential Medal of Freedom-winning "human computer"
- 8. First African-American woman to fly in space
- 9. Dorothy Vaughan, the NACA's first African-American
- 10. Former astronaut and NASA education chief

Down

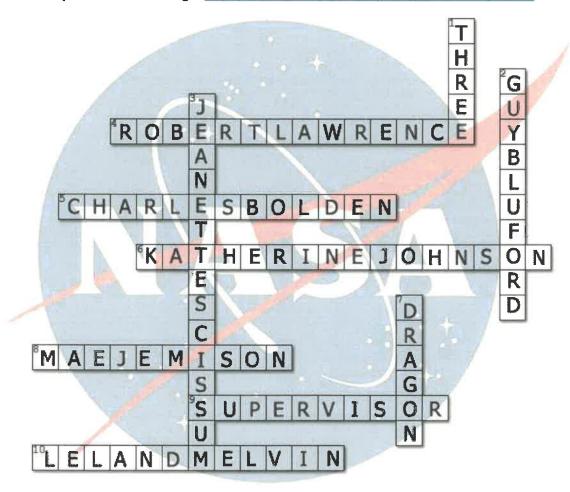
- 1. Number of African-Americans in the 1978
 Astronaut Class
- 2. First African-American in space
- 3. Scientist who improved sunspot cycle predictions
- 7. Astronaut Victor Glover will fly on the SpaceX _____

ANSWER KEY

Black History Month 2019

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Black History Month—NASA Images https://www.nasa.gov/image-gallery/black-history-month



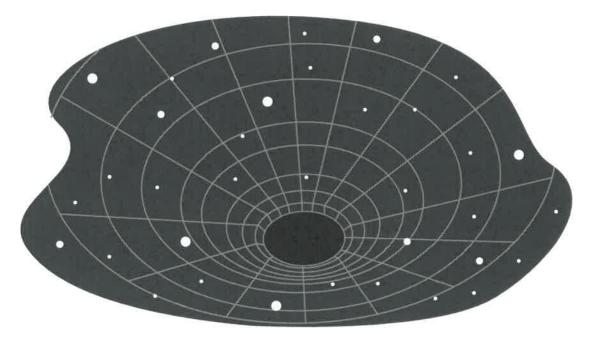
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Down

- 1. Number of African-Americans in the 1978 Astronaut Class
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- 3. Scientist who improved sunspot cycle predictions
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Black Holes

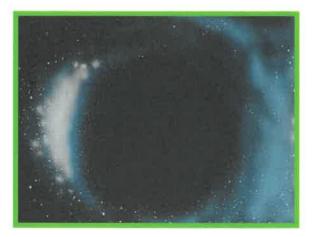


A black hole is a region of space with an extremely strong *gravitational pull*. Gravitational pull is the attraction one object has for another object based on the natural force of gravity. No matter, radiation or light can escape the pull of a black hole.

Black holes are often considered invisible because the lack of light makes them nearly impossible to see without a special telescope (hence the name black hole).

Scientists estimate that black holes can be as tiny as a single atom and as big as 20 of our suns put together. Stellar black holes, the largest of the observed black holes are created when a star collapses.





Computer simulated images of black holes

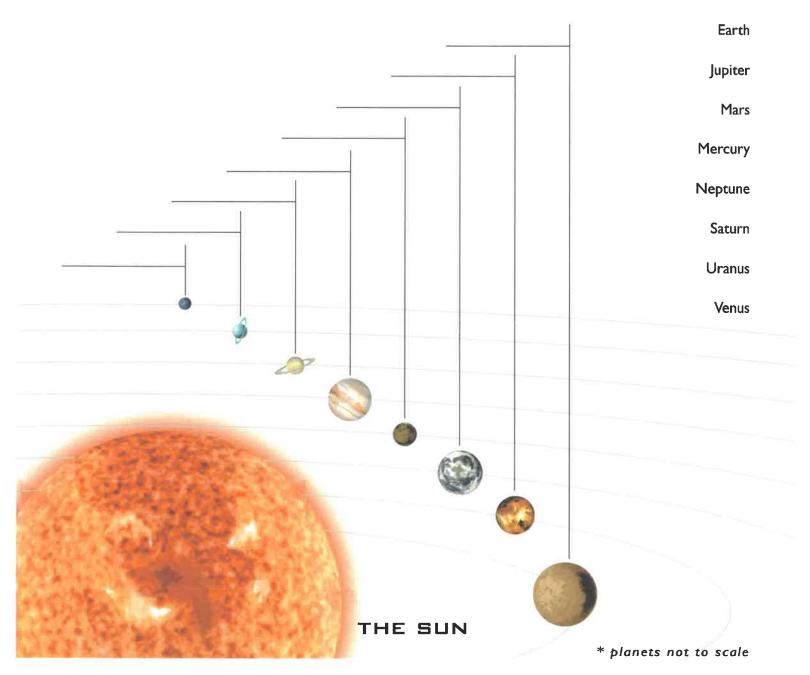
Reading Comprehension Into a Black Hole

You are an outer space explorer lost off course. Suddenly your radar shows that you are coming up fast on a black hole! There's nothing to be done, so you brace yourself for the impact. Amazingly, you are stil alive! What happened? What did you find in the black hole? What will happen next?



Use the following clues to determine the order of the planets in the solar system. The complete list of planets is given below.

- There is exactly one planet between Earth and Jupiter ®
 - Jupiter is between Mars and Saturn ®
 - Mercury is the closest planet to the Sun
 - Venus is next to Mercury ●
 - Saturn and Uranus have rings ●

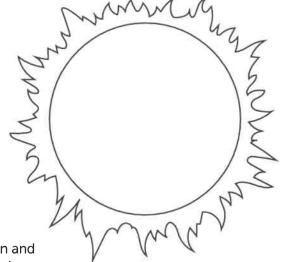




Learning the Moon's Phases

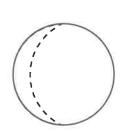
Did you know?

The moon looks different every night. It grows from a thin crescent to a full moon. Then it shrinks back to a crescent every month! That's because the moon rotates around the Earth, and the sun's light reflects off of the moon at different angles.

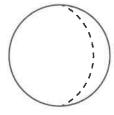


As the moon orbits the Earth, we can only see a portion of the lit up side. When we can see all of the moon lit up, it is called a full moon. When we can't see any of the moon lit up, this is called a new moon. Which moon phase do you like best?

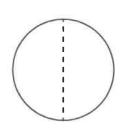
Directions: Read each caption and follow the instructions of how to illustrate that moon phase.



1. New Moon

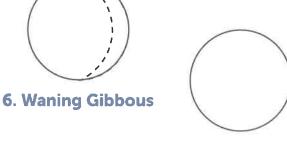


8. Waning Crescent

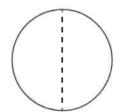


7. Last Quarter

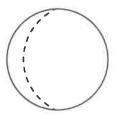




2. Waxing Crescent



3. First Quarter



4. Waxing Gibbous