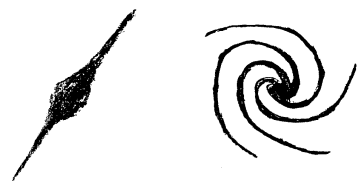


**GALAXIES AND CONSTELLATIONS**

A galaxy is a group of stars just like a herd is a group of cattle and a class is a group of mature young adults. The only difference is that a galaxy contains about 100 billion stars! The galaxy that the Earth is a part of is called "The Milky Way" and is shaped like a spiral.



The Milky Way was named when early astronomers looked up at the night sky and saw a milky band of dim stars going across the sky. The Milky Way can be seen on a very dark, clear night, directly overhead, and looks like a white haze of dim stars. (The Greek word for Milk is "Gala")

**HOW BIG IS A BILLION?**

If a person could make 50 dots on a page in 10 seconds, that person would have one billion dots in 6.3 years. (That is only if the person made dots night and day - never stopping for food, sleep, or an occasional pee break.)

If you had one billion Kraft Dinners, you could have supper, to all the people that could fit into the world every day of the year, for 55 years!

ISBN: 978-1-55319-011-0 30

**OPTIONAL ACTIVITY - EXTRATERRESTRIAL**

**Instructions**

In this assignment, your job is to create a space alien that lives in the Solar System.

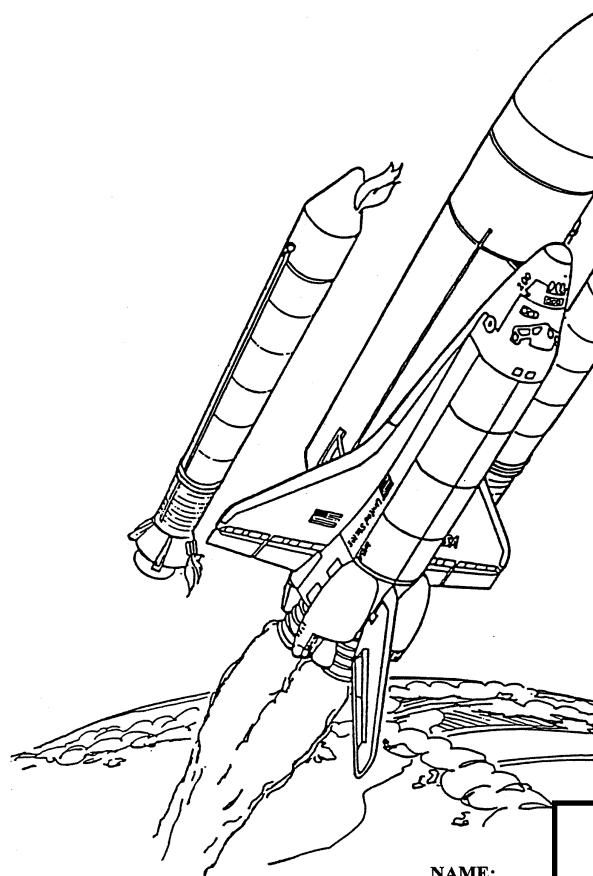
It is very important to make sure that the alien is able to survive in the environment of its home planet.

Home Planet \_\_\_\_\_

Name of Alien \_\_\_\_\_

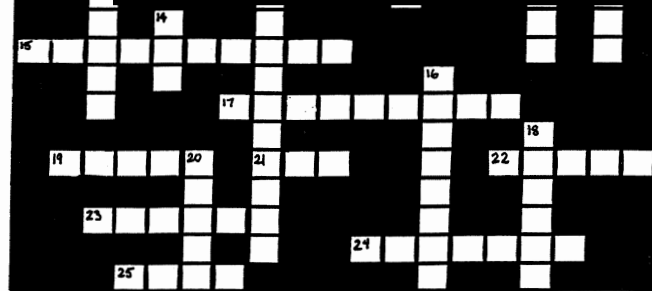
Special Characteristics \_\_\_\_\_

**SPACE - THE FINAL FRONTIER**



NAME: \_\_\_\_\_

ISBN: 978-1-55319-011-0 41



**ACROSS:**

- 4. ANOTHER NAME FOR SHOOTING STAR
- 8. FIRST HUMAN IN SPACE
- 9. HAS A RED SPOT
- 13. REUSEABLE SPACE SHIP
- 15. AN OLD, COLD STAR
- 17. BITS OF SPACE ROCK BETWEEN MARS AND JUPITER
- 19. DISNEY'S SPACE DOG
- 21. CLOSEST STAR TO EARTH
- 22. ONLY PLANET WITH LIFE
- 23. PROPEL THE ROCKET
- 24. MAKE UP THE MAN IN THE MOON
- 25. HELP THE ROCKET GO STRAIGHT

**DOWN:**

- 1. SCORCHED PLANET
- 2. A FORCE CAUSED BY MASS
- 3. EXPLODING STAR
- 4. ROMAN GOD OF WAR
- 5. SPACE ALIENS MIGHT USE THIS TO GET WATER
- 6. CAPTAIN OF OLD ENTERPRISE: JAMES T. BECK
- 7. THE MORNING STAR
- 10. A THING THAT ORBITS SOMETHING ELSE
- 11. FIRST MAN MADE SATELLITE
- 12. A LARGE GROUP OF STARS
- 13. ALL THINGS THAT ORBIT THE SUN
- 14. ISN'T THIS ASSIGNMENT GREAT?
- 16. THE GALAXY WE ARE IN
- 18. RINGED PLANET
- 20. HUNTER IN SPACE

ISBN: 978-1-55319-011-0

**ACTIVITY #9 - SICK SPACE JOKE**

**Q: WHY DIDN'T THE WHITE DWARF CROSS THE ROAD?**

**A:** 2044 1862 6063 288 5206 2394 1862 4656 1862 9453 288 414  
851 5206 2268 851 2898 3149 288 2394

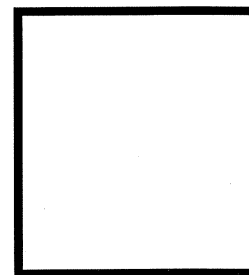
*Be creative with this assignment!*



**Space The Final Frontier**



CONSTELLATION NAME : \_\_\_\_\_



\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

AUTHOR : \_\_\_\_\_

ISBN: 978-1-55319-011-0

46

©rainbowhorizons.com RHPA5

1) Explain why Venus is so hot.

\_\_\_\_\_  
\_\_\_\_\_

2) How does a rocket engine work?

\_\_\_\_\_  
\_\_\_\_\_

3) What are the rings of Saturn made of?

\_\_\_\_\_  
\_\_\_\_\_

4) List three reasons why it would be hard to live on Jupiter.

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**SPACE EXAM**

NAME: \_\_\_\_\_

**Instructions**

All questions should be answered in fill sentences unless stated otherwise. (A.I.F.S)

1. Fill in the blanks.

- a) The "Red Planet". \_\_\_\_\_
- b) The "Morning Star". \_\_\_\_\_
- c) The "largest planet". \_\_\_\_\_
- d) The planet with a red spot. \_\_\_\_\_
- e) The only planet that has life. \_\_\_\_\_
- f) The nearest star to the earth. \_\_\_\_\_
- g) The constellation known as "The Hunter". \_\_\_\_\_
- h) The first man-made satellite in space. \_\_\_\_\_
- i) The name of the galaxy that the earth is a part of. \_\_\_\_\_

2. Explain why Venus is such a warm planet.

\_\_\_\_\_  
\_\_\_\_\_

3. Why is Mars called the "Red Planet"?

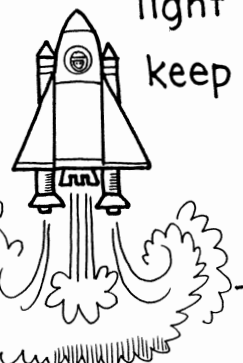
\_\_\_\_\_  
\_\_\_\_\_

Light and Warmth!

## ☆ Space Task Card # 5

☆ Read the information card on The Sun.

☆ Suppose that one day, the sun burned itself out, like a lightbulb! What would happen? What would we do for light? How would we keep warm?



ISBN: 978-1-55319-265-7

## ☆ Task Card #8 Earth and Moon

Earth is full of trees, animals, lakes and rivers. The moon has no air or water. The moon is full of craters or holes. There are rocks and a kind of soil on the moon.

Can you illustrate the land of the moon and the earth. Use drawings to compare the two. Use the materials provided. Set up your page like this:

|                 |                |
|-----------------|----------------|
| Earth landscape | Moon landscape |
|-----------------|----------------|

ISBN: 978-1-55319-265-7

## ☆ Task Card #9

Name \_\_\_\_\_ date \_\_\_\_\_

### Graph of the Moons

Graph the information from the moon chart on the information card. Colour the moons of each planet a different colour.

|    |      |       |       |        |         |        |         |         |  |
|----|------|-------|-------|--------|---------|--------|---------|---------|--|
| 20 |      |       |       |        |         |        |         |         |  |
| 19 |      |       |       |        |         |        |         |         |  |
| 18 |      |       |       |        |         |        |         |         |  |
| 17 |      |       |       |        |         |        |         |         |  |
| 16 |      |       |       |        |         |        |         |         |  |
| 15 |      |       |       |        |         |        |         |         |  |
| 14 |      |       |       |        |         |        |         |         |  |
| 13 |      |       |       |        |         |        |         |         |  |
| 12 |      |       |       |        |         |        |         |         |  |
| 11 |      |       |       |        |         |        |         |         |  |
| 10 |      |       |       |        |         |        |         |         |  |
| 9  |      |       |       |        |         |        |         |         |  |
| 8  |      |       |       |        |         |        |         |         |  |
| 7  |      |       |       |        |         |        |         |         |  |
| 6  |      |       |       |        |         |        |         |         |  |
| 5  |      |       |       |        |         |        |         |         |  |
| 4  |      |       |       |        |         |        |         |         |  |
| 3  |      |       |       |        |         |        |         |         |  |
| 2  |      |       |       |        |         |        |         |         |  |
| 1  |      |       |       |        |         |        |         |         |  |
|    | Mars | Venus | Earth | Uranus | Neptune | Saturn | Jupiter | Mercury |  |

Number of Moons

Name of Planet

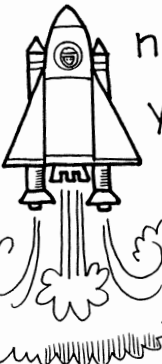
File Folder # 3

ISBN: 978-1-55319-265-7

## ☆ Space Task Card

You are an alien!

Can you pretend that you are an alien in disguise visiting Earth? You are writing in a journal to tell about what you saw today on Earth. Remember that because you are an alien you do not know all the names for things you see!

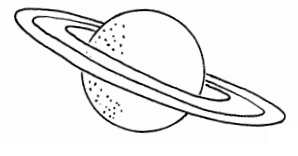


ISBN: 978-1-55319-265-7

The sun is at the centre of the Solar System. The eight planets all move around the sun.

The names of the eight planets are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.

The Solar System is only a very small part of the Universe.



ISBN: 978-1-55319-265-7

There are 8 pairs of space cards to this game. Mix the cards well and place them face down on the floor or table. Make 4 rows of 4 cards in each row.

Decide who goes first, second or third.

The first player turns over one space card. The first player then turns over another space card, looking for its match. If the cards match, the player keeps the cards and tries again.

When the cards don't match, the cards are turned face down again in the same place. It is the next player's turn.

Have fun!



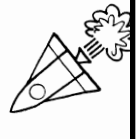



Name \_\_\_\_\_ date \_\_\_\_\_ ☆ Task Card

Can you find the space words from the letters below.

Word List: mars, pluto, star, sun, moon, comet, galaxy, neptune, rings.

do not have capital letters in this game

r i n g s s g  
 o o n a z u a  
 c o m e t n i  
 k s t a r v a  
 e p t u n e x  
 t l w r l n y  
 x u r a n u s  
 f t m a r s a  
 i o s k o t z

## ☆ ☆ Space Quiz ☆

What do you know about space?

Name \_\_\_\_\_ date \_\_\_\_\_

- There is no \_\_\_\_\_ or \_\_\_\_\_ in space.
- Everything that we know about is in the \_\_\_\_\_.
- There are \_\_\_\_\_ planets.
- The \_\_\_\_\_ is in the centre of the Universe.
- The sun gives us \_\_\_\_\_ and \_\_\_\_\_.
- Jupiter has \_\_\_\_\_ moons.
- \_\_\_\_\_ study the Universe.
- We can see the sky when we look through a \_\_\_\_\_.
- \_\_\_\_\_ are people who go up in space. Some even have walked on the moon.
- Comets are balls of rock and \_\_\_\_\_.

Word List: gas, Universe, air, gravity, sixty-three, Sun, Astronomers, light, warmth, Astronauts, eight, telescope.

ISBN: 978-1-55319-265-7

