

Name: \_\_\_\_\_

## **Animal and Astronauts in Space**

### **Animals**

Use these two websites to create a timeline of animals in space:

<http://www.spacetoday.org/Astronauts/Animals/Dogs.html>

<http://history.nasa.gov/animals.html>

### **Astronauts**

Go to <http://spaceflight.nasa.gov/living/index.html>

1. How do you cook, prepare and store food in space?
2. How do you take a shower and use the restroom in space?
3. Where do astronauts in space get water?
4. How do astronauts breathe in space?
5. What type of training to astronauts have to go through?
6. What is it like to sleep on the shuttle and on the International Space Station?
7. What do astronauts do for fun in space?

Go to <http://library.thinkquest.org/03oct/02144/travel/needs.htm>

Give the 12 basic needs that must be met in space and summarize each.

1. Need:
  - a. Summary:
2. Need:
  - a. Summary:
3. Need:
  - a. Summary:
4. Need:
  - a. Summary:
5. Need:
  - a. Summary:

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**Go to <http://www.nsbri.org/HumanPhysSpace/indexb.html>**

Click on “Environmental Challenges Facing Humans in Space”

What 3 major differences are given between the Earth environment and space environment?

- 1.
- 2.
- 3.

Click “Atmosphere” (either at top or bottom of page)

How is the atmosphere in space different?

How does density of molecules relate to pressure and temperature?

Click “Radiation”.

What is radiation?

What 5 types of radiation are discussed? Define each.

- 1.
- 2.
- 3.
- 4.
- 5.

Click “Gravity”

What is another term for “floating” in space?

Is gravity ever completely eliminated?

What is this called?

Click “Body Changes” at bottom of page.

What in the body causes “space motion sickness”?

What is headward shift of fluid?

What are the effects of headward shift?

Why do bones and muscles weaken in space?