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First Secondary

English Language

Use your notes to fill out the sheet. To answer some of the questions, you will need to use the Internet links provided to view the full color image.

How Do Astronauts Live in Space?

Name:

Group 1: Food

How has the food that astronauts eat changed over the last 50 years?

What kinds of foods do astronauts eat in space today?

What methods are used to prevent the food from spoiling?

If you lived in space for a month, what foods do you think you would miss the most? Why?

Web Resources

Frankfurters in Orbit

www.spacekids.com/missions/food_sts106_000828.html

Top 5 Foods Astronauts Request

<http://www.timeforkids.com/TFK/magazines/story>

Eating in Space

http://www.pbs.org/spacestation/station/living_eating.htm

Life in Space: International Space Station
How Do Astronauts Live in Space?

Name:

Group 2: Space Suits

What are the main parts of a space suit? How do they work?

Do astronauts have to wear the space suits all the time? Why or why not?

What are some safety measures that are built into space suits?

Do you think space suits are comfortable? Why or why not?

Web Resources

Space Suit: How it Works

<http://www.utc.com/discover>

Space Suits

http://www.pbs.org/spacestation/station/living_spacesuit.htm

The Space Suit (history)

<http://www.hq.nasa.gov/office/pao/History/SP-4026/contents.html>

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Group 3: Extraterrestrial Experiments

What are some examples of experiments conducted on the International Space Station (ISS)?

What do scientists hope to learn about life in space?

How do scientists conduct controlled experiments in space?

Name two findings that have emerged from experiments done in space.

Web Resources

Home in the Sky: International Space Station

<http://www.discovery.com/stories/science/spacestation/spacestation.html>

NASA Watch

<http://www.nasawatch.com/station.news.html>

Life in Space: International Space Station
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Group 4: Sanitation in Space

How do astronauts shower and use the bathroom in space?

Do they need to wash dishes or laundry?

How do they keep their living quarters clean?

What special sanitation issues do astronauts face that those of us on Earth don't worry about?

Web Resources

Three Bedrooms, One Bath, Great Neighborhood (article)

http://www.spacekids.com/missions/ISS_next_000828.html

Sanitation

http://www.pbs.org/spacestation/station/living_sanitation.htm

Life in Space: International Space Station

How Do Astronauts Live in Space?

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Group 5: Sleep and Relaxation

Do astronauts require more or less sleep than normal when they are in space?

How many hours of sleep do astronauts usually get each night?

How do astronauts relax in space?

Do astronauts sleep in a bed? If they do not, how do they sleep?

Web Resources

Recreation and Sleeping

http://www.pbs.org/spacestation/station/living_sleeping.htm

Take-Home Activity Sheet:

Life in Space: International Space Station

A Week in Space

Name:

Every 90 minutes, the International Space Station (ISS) circles our planet. Thousands of people from 16 countries are working together to build the ISS, and it will take more than 40 trips to get all the pieces up to it. Scientists hope to finish assembling it by 2006.

Here are some other amazing facts about the ISS:

The ISS would weigh over one million pounds on Earth, but in space (240 miles above two football fields, the ISS is made up of more than 70 major pieces.

The ISS orbits at a speed of 17,500 miles per hour.

Temperatures outside the station range from -250° F to $+250^{\circ}$ F.

THINK ABOUT IT

Imagine that you were the first kid selected to spend a week in space. Write a short story about what you think your experience would be like. Include information about the food you would eat, the clothes you would wear, the way you would sleep, how you would use the bathroom, and what you might do for fun. What would happen if you got into an argument with another astronaut? How would you settle differences? You may want to include a discussion of the preparation and training you received before launching.