



**DREAM FLIGHT
ADVENTURES**

Inspiring the world to think and dream

Lesson Plans & Curriculum-based Activities

Helpful tools to extend the magic before and after the mission

We ignite imaginations, blur the line between entertainment and education, and let dreams take flight.



Name _____

Temperature Conversion Worksheet

You can convert a temperature from **Celsius to Fahrenheit** in 3 steps:

1. Take your Celsius temperature _____ and multiply it by 9.
_____ x 9 = _____
2. Take the answer from step one and divide it by 5.
_____ ÷ 5 = _____
3. Take the answer from step two and add 32 to it.
_____ + 32 = _____

Example: Let's convert 20° Celsius to Fahrenheit:

$$20^{\circ} \text{ Celsius} \times 9 = 180$$

$$180 \div 5 = 36$$

$$36 + 32 = 68^{\circ} \text{ Fahrenheit}$$

To convert from Celsius to Fahrenheit:

$$T_F = 9/5 T_C + 32$$

You can convert a temperature from **Fahrenheit to Celsius** in 3 steps:

1. Take your Fahrenheit temperature _____ and subtract 32 from it.
_____ - 32 = _____
2. Take the answer from step one and multiply it by 5.
_____ x 5 = _____
3. Take the answer from step two and divide it by 9.
_____ ÷ 9 = _____

Example: Let's convert 200° Fahrenheit to Celsius:

$$200^{\circ} \text{ Fahrenheit} - 32 = 168$$

$$168 \times 5 = 840$$

$$840 \div 9 = 93^{\circ} \text{ Celsius}$$

To convert from Fahrenheit to Celsius:

$$T_C = 5/9 (T_F - 32)$$



Now, convert the temperature units to finish the below table.

Fahrenheit		Celsius	Comments
	=	100°	Water boils
200°	=		
100°	=		
80°	=		
70°	=		
	=	20°	Typical room temperature
	=	10°	
	=	0°	Water freezes
-40°	=		

Special thanks to www.teachengineering.org for this worksheet.



Name _____

Virus Worksheet

Use your textbooks, library, or the internet to research and answer the following questions about viruses.

1. What is a virus made of?
2. What does the word virus mean?
3. Viruses that infect bacteria are called _____.
4. Study the incorrect statements below. Change the underlined word(s) to make each sentence correct. Write the correct new word(s) on the line.
 - a. Viruses are in the kingdom Archeabateria. _____
 - b. Viruses are made of cells. _____
 - c. Viruses can be seen with a light microscope. _____
 - d. Viruses can cause damage only in humans. _____
 - e. Each kind of virus infects several hosts. _____
 - f. Viruses are always larger than the cells they infect. _____
 - g. Viruses reproduce outside of living cells. _____
 - h. Viruses do not harm the cells in which they live. _____



5. Viruses are sometimes confusing to scientist because they show signs of acting both alive and not alive. List three things they have in common with living things (cells).

a.

b.

c.

6. List three reasons why scientists do not believe viruses are alive.

a.

b.

c.



Mission Debrief Class Discussion Guide

Your students will encounter a wide variety of educational topics in their Dream Flight Adventures mission. After the mission is complete, use this guide to lead your students in a class discussion to explore these topics in more depth.

Consider dividing your students into small groups to discuss each question and then share their group's opinion with the entire class. Be sure to let every student's voice be heard. Dream Flight Adventure missions are multi-faceted, and each student is exposed to a slightly different part of the story. Let every student share their thoughts and experiences so the entire group can benefit.

Suggested thought-provoking questions for *Pandemic* are:

How does prolonged isolation influence culture?

How do vastly different cultures interact when they collide?

What actions should be taken to maintain genetic diversity?

What is the future of nanomedicine?

What precautions should be implemented to protect against pandemics?

The Iberians and Aztlans had much to gain by working together, but fear, distrust, and superstition kept them apart for many years. What are some real world examples where fear, distrust, and cultural differences stand in the way of progress?

If you could do the mission again, what would you do differently?

How do you relate to the characters, events, or issues that you encountered during the mission?

What parts of the mission were the most challenging?

What new things did you learn during the experience?



Name _____

Multimedia Mission Memoir

Reflect on your recent Dream Flight Adventures mission and prepare a multimedia project that tells about your experience.

Be creative and draw upon any type of multimedia to create your project. Possible examples include posters, collages, short stories, PowerPoint presentations, dioramas, plays, podcasts, animations, videos, music, or comic books.

In your project, be sure to address the following questions:

What happened during your mission? Summarize the events.

What was your responsibility?

What did you do in your mission? What were the results?

If you could do the mission over again, what would you do differently?

How do you relate to the characters, events, or issues that you encountered during the mission?

What parts of the mission were the most challenging?

What parts of the mission were the most exciting?

What new things did you learn during the experience?

Did the mission change the way you think about anything? If so, what, and how has your perspective changed?

Be prepared to share your project with your peers and to describe why you chose the form of multimedia you did.