

# Succeeding in the New World: Colonial America Engineering Portfolio

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This portfolio belongs to:

## Explore the Colonies

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As you read about each settlement in the slideshow, fill out the column for that settlement on the chart below. If you are unable to find the information, write "Not Known" in the box. (Note that the chart continues on the following page).

### Colonial Settlements

Category	Roanoke	Jamestown	Plymouth	New Amsterdam
Physical Geography				
Climate				
Crops Planted				

**Explore the Colonies (continued)**

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<b>Category</b>	<b>Roanoke</b>	<b>Jamestown</b>	<b>Plymouth</b>	<b>New Amsterdam</b>
Key Economic Activities				
Challenges Faced				
Accomplishments				
Population Changes (Growth or Decline) and Causes				

## **Describe a Settlement**

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What did you learn about early settlements from reading the four case studies? Use the space below to write a summary of the successes and failures colonists had while trying to meet their needs.

## Research Features of Your Region

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Discuss with your classmates the key advantages and disadvantages of the geography near your proposed settlement. Use these decision trees to take notes on the advantages and disadvantages of your settlement site.

### Landforms and Bodies of Water

Advantages	Disadvantages

### Climate

Advantages	Disadvantages

### Soil

Advantages	Disadvantages

**Research Features of Your Region (continued)**

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**Plants**

Advantages	Disadvantages

**Animals**

Advantages	Disadvantages

## Criteria for a Successful Settlement

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Think about what you learned about other successful and unsuccessful settlements. Complete the mind map on the following page or complete the table on page 8 by listing five key criteria for a successful settlement and the justification for the criteria.

Here is a sample criterion and its justification:

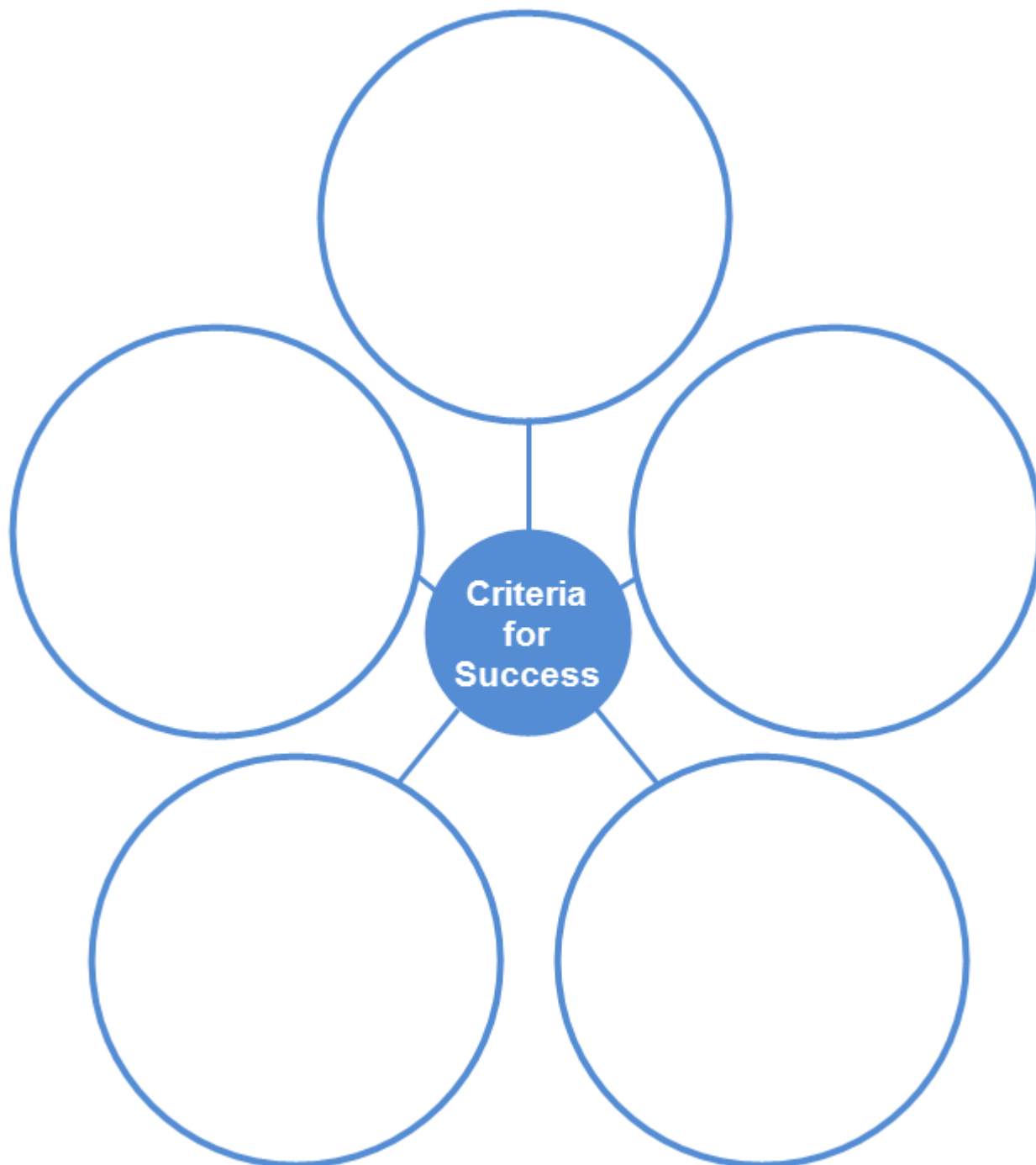
<b>Criteria</b>	<b>Justification</b>
Access to fresh water	Without fresh water, colonists will become sick and many may die. In Jamestown, many colonists became sick from drinking salty water and died.

## Criteria for a Successful Settlement (continued)

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### Mind Map

Print this page and write five key criteria for a successful settlement and the justification for the criteria in the circles.





**Criteria for a Successful Settlement (continued)**

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**Table (Alternative to Mind Map on page 8)**

<b>Criteria</b>	<b>Justification</b>

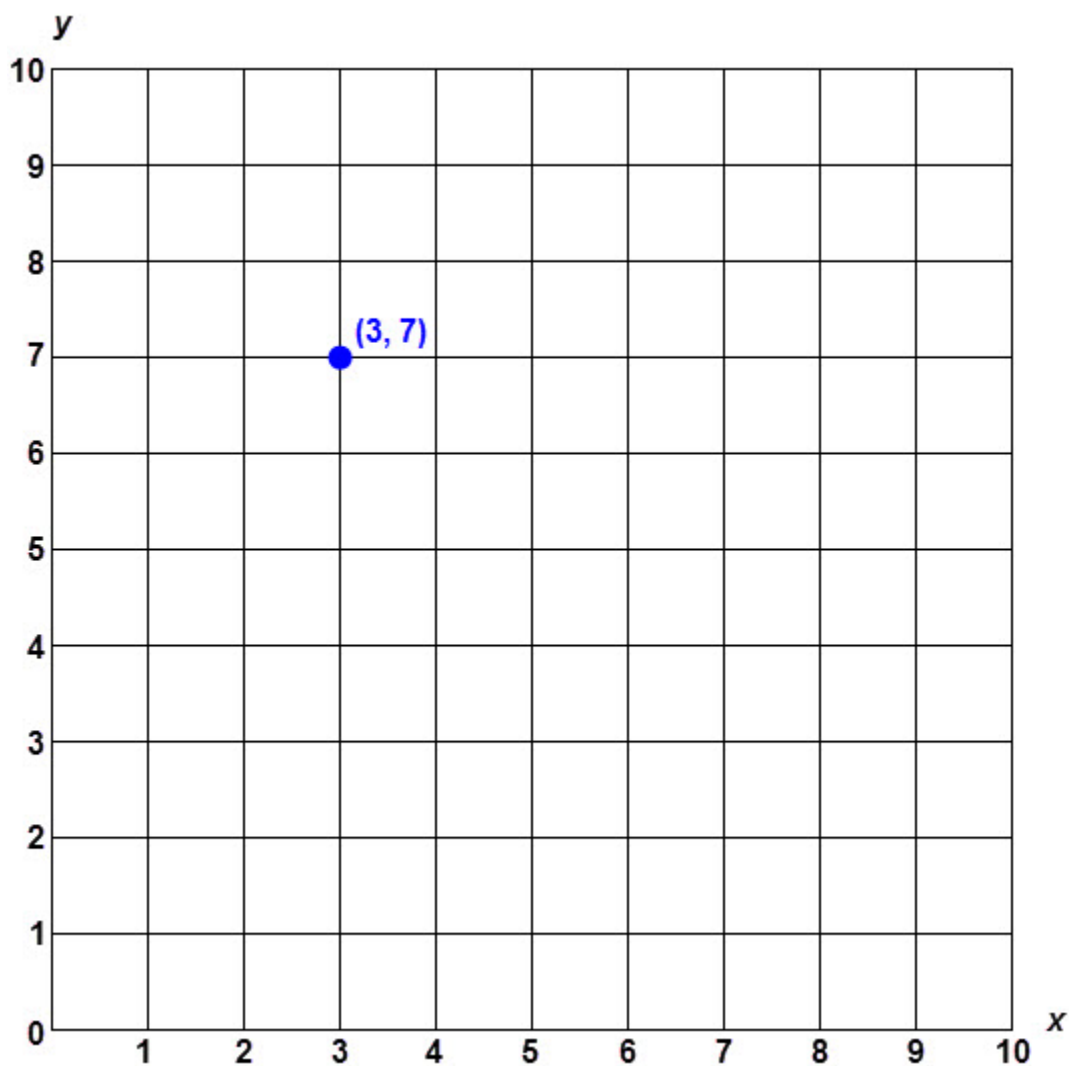
## Overview of Coordinate Grids

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Print this page and locate each coordinate on the grid and place a dot to mark the location of the coordinate. The first coordinate (3, 7) has been done for you.







### Coordinates

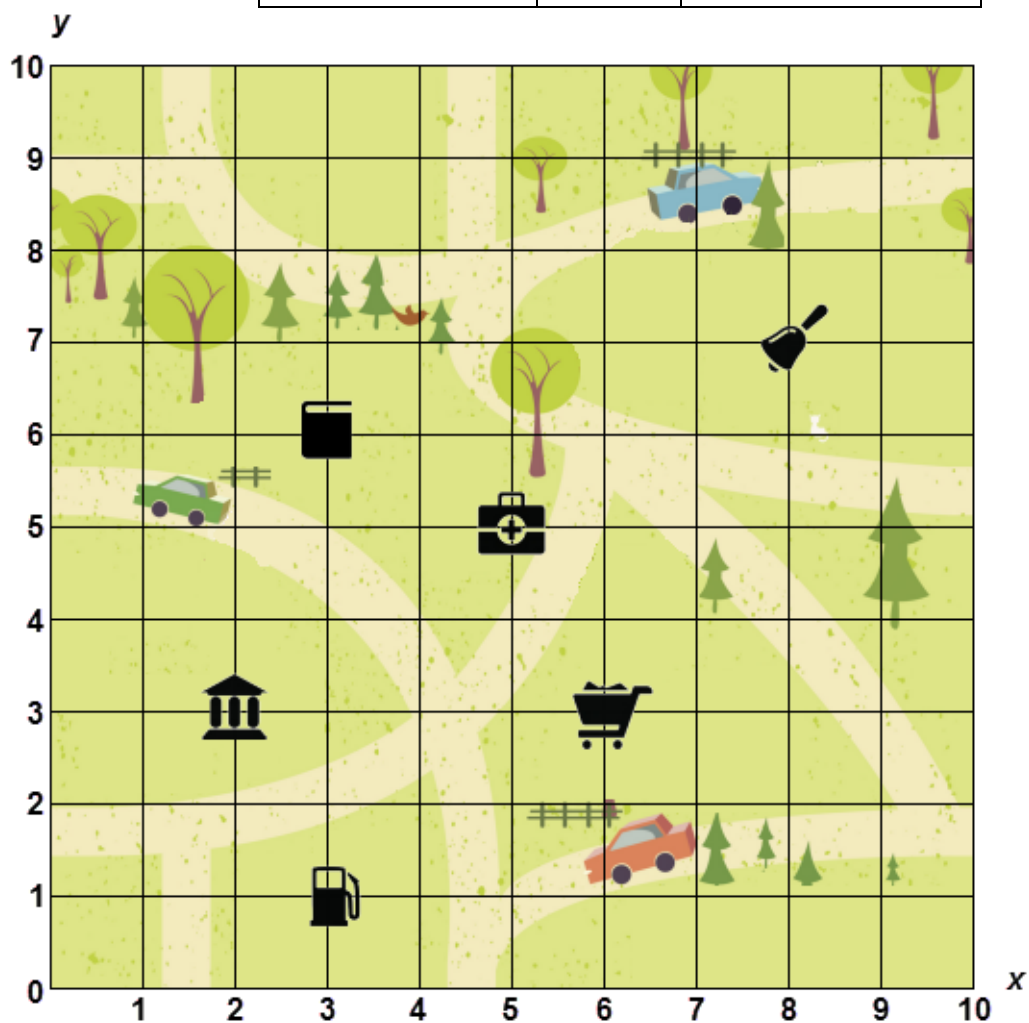
$x$	$y$
3	7
2	9
4	4
6	3
2	8
9	5



## Overview of Coordinate Grids (continued)

Locate each symbol on the grid and identify the  $x$ - and  $y$ - coordinates for the location of the symbol. The library symbol has been done for you.

Symbol Name	Symbol	Coordinates ( $x, y$ )
Library		(3, 6)
Hospital		
Super Market		
School		
Town Hall		
Gas Station		



## Build Your Settlement

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### STEP 1: Prepare for Your Journey

Identify items to take and build a settlement. Enter the quantity of each supply kit from the list. Your supplies cannot exceed 10,000 pounds. To calculate the total weight for each supply kit, multiply the quantity times the pounds for each kit. Finally, add all of the values in the Total Weight column together to ensure that the weight of your supplies is less than 10,000 pounds.

Supply Kit	Quantity	Total Weight
Supply Kit for 100 Colonists (15 families and 25 single men)		
<b>Household Kit (150 pounds):</b> This kit includes building tools, hunting tools, warm clothes, light-weight clothes and cooking utensils. It satisfies household needs for building and living in 5 homes. One home would accommodate a family of 3 - 5 individuals.		
<b>Leader Household Kit (75 pounds):</b> This kit includes building tools, hunting tools, warm clothes, light-weight clothes, cooking utensils, trading items and writing instruments. It satisfies household needs for building and living in one home for the leader of the colony and his family (3 - 5 individuals).		
<b>Doctor Kit (75 pounds):</b> This kit includes building tools, warm clothes, light-weight clothes, cooking utensils and medical supplies. It satisfies household needs for building and living in one home for the doctor of the colony and his family (3 - 5 individuals).		
<b>Church/School Kit (100 pounds):</b> This kit includes building tools, bibles, books and school materials. It satisfies the needs for building one church/schoolhouse to meet the spiritual and educational needs of the community.		
<b>Storeroom Kit (400 pounds):</b> This kit includes building tools, emergency tools and food rations. It satisfies the needs for building one storeroom and enough supplies for six months for half of the population.		
<b>Livestock Kit (1,500 pounds):</b> This kit includes 1 cow or 5 goats, and it satisfies the needs for building and maintaining 2 paddocks/livestock enclosures. Two paddocks can support up to 16 families for the year.		
<b>Farming Kit (300 pounds):</b> This kit includes seeds and tools for planting crops such as wheat, beans and corn. It satisfies the needs for planting and maintaining 5 crop fields that would feed 20 people for a year.		
<b>Gardening Kit (50 pounds):</b> This kit includes seeds and tools for planting vegetables and herbs. It satisfies the needs for planting and maintaining 5 vegetable gardens that would provide vegetables and herbs for 20 people for a year.		



















## **Build Your Settlement**

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### **STEP 3: Face Your Challenge**

The American colonies faced many challenges, including those caused by natural disasters. Click the SPIN button in the Settlement Builder to see which natural disaster will strike your settlement. Record the result of the spin below.

**Which disaster struck your colony?**

## **Build Your Settlement**

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### **STEP 4: Test Your Settlement**

Click the Test button in the Settlement Builder to see the impact of this disaster on your settlement.

**Describe how the disaster impacted your colony.**

**Did you make decisions for locations of structures based on geographic characteristics?**

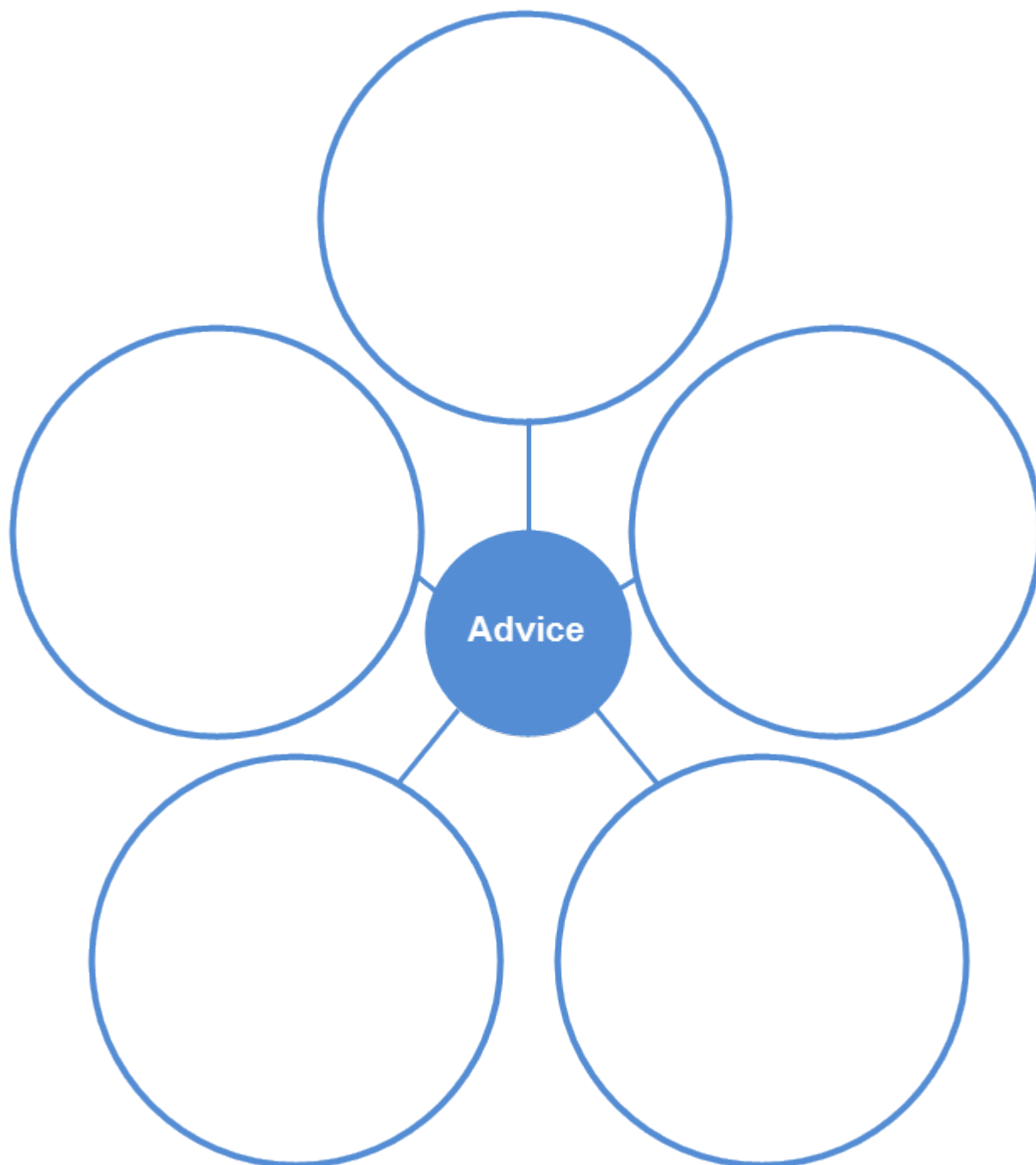
**Will your settlement be able to rebuild and survive off of what was not destroyed?**

## If I knew then what I know now...

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### Brainstorm: Idea Web

Brainstorm for your informational column by filling the idea web with the advice you would give new colonists, or you may choose to record your ideas in the blank space on the next page. Next, as a group, decide which five pieces of advice to include in your column.



**If I knew then what I know now...**

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**Brainstorm: Ideas (Alternative to Idea Web on page 23)**

In the space below, record your ideas for advice you would give new colonists.



**If I knew then what I know now...**

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**Organize Information**

Gather and organize information for your column by working with your group to complete this table. As a group, decide which five pieces of advice to include.

<b>Piece of advice</b>	<b>Supporting evidence from readings</b>	<b>Supporting evidence from simulation</b>	<b>Supporting visual evidence (images, graphs, etc.)</b>

**If I knew then what I know now...**

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**Write Your Informational Column**

Use this page to write your rough draft of your column. Be sure to note any images or graphs that you will use in your final text. If more pages for writing are needed, you may use the additional blank pages at the end of this portfolio.

## If I knew then what I know now...

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### Revise

Revise your column. Reread the column and think about the following:

- Does your writing make sense? Are you missing any important pieces of information?
- Do you include five pieces of advice?
- Do you back up your advice with evidence from your experiences and your reading?
- Do you include images or graphs?

**If I knew then what I know now...**

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**Edit**

Edit your Informational Column. Reread the column and think about the following:

- Do you have any misspelled words?
- Are all of your sentences complete sentences?
- Do you have punctuation at the end of each sentence?

**If I knew then what I know now...**

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**Publish**

Now you are ready to publish. Type your column or rewrite it neatly. Include your images and graphs.











