Date

Activity Guide - Using the Problem Solving Process

Word Search

Overview

Working with a team, find the following words in the grid. They may be horizontal, vertical, or diagonal in any direction. **DEFINE**, **PREPARE**, **TRY**, **REFLECT**, **PROBLEM**, **SOLVE**, **COMPUTER**, **SCIENCE**

Objective

Before completing the word search please define the problem and prepare a strategy for how to tackle the word search. Please write your responses below:

	Define	Prepare	Try	Reflect
Word Search				

Ε	S	Q	Η	J	Η	R	С	F	A	Х	М	G	М	U	Ε	В	L	Ν	Ι
S	R	Κ	Ε	R	Ε	Т	U	Ρ	М	0	С	Ε	С	М	Ζ	Τ	Y	J	С
D	Х	A	Ρ	Ν	Х	Q	L	Y	V	Κ	L	S	Х	Х	Ν	С	Ε	Η	N
J	Μ	Х	Ρ	Κ	W	W	0	J	Q	В	В	0	Q	М	Η	Ε	A	Η	Т
В	Ι	U	0	Ε	Y	Η	Κ	М	0	A	R	L	F	R	D	L	Ρ	Η	А
Ν	J	Η	Τ	Y	R	A	Ε	R	С	F	L	V	М	S	С	F	A	J	М
Т	Ι	R	Y	Q	W	Ρ	Ρ	Η	D	Х	Q	Ε	Q	U	Ν	Ε	R	G	S
Η	Y	R	Ι	М	Ι	Х	D	Ζ	Κ	В	М	Ν	G	0	J	R	В	Κ	U
Ρ	U	В	U	Ε	U	J	Ε	G	D	Τ	F	В	D	Т	Ι	М	V	V	Ρ
Η	V	W	S	Κ	F	D	G	Κ	V	D	М	S	0	Х	Y	0	R	S	F
S	С	Ι	Ε	Ν	С	Ε	W	Ρ	Q	Τ	Ε	0	R	Ι	A	S	Q	М	U
Η	R	G	D	Y	V	Ν	Η	Ι	J	D	С	F	G	V	Η	Ε	М	Ζ	М
U	0	Η	Η	Ν	А	G	Х	0	Q	Κ	Κ	В	Ι	G	М	Т	W	0	L
0	Ρ	Ε	Ι	0	Q	G	В	A	R	V	Η	Ρ	Ν	Ν	A	Ζ	Ε	Х	V
Y	Ι	S	W	Ν	R	Ν	U	U	W	G	Η	Х	Η	A	Ε	В	0	Ρ	Ν
L	Х	D	J	Х	R	Ρ	V	Y	J	Η	U	Η	Х	D	Y	F	0	Ι	D
F	U	D	J	Х	V	U	Κ	F	С	V	D	Q	В	Ρ	D	Ζ	Ι	В	D
F	В	R	D	S	Ι	W	Ρ	Κ	F	Κ	V	Τ	R	D	R	G	Y	С	R
Y	Ε	Τ	Y	0	D	М	Х	Η	L	L	V	Ρ	Τ	J	V	Ι	J	С	D
Η	Ε	Х	Κ	R	0	Ι	Ρ	В	W	Ε	Τ	0	Y	Х	Ι	В	W	V	0

Once You're Done

Finish up the last two sections "Try" and "Reflect" located on the first page.

Birthday Guests

Overview

A big group of 15 guests is getting together at a restaurant for a birthday. The restaurant has 3 tables that can each seat only 5 people. Below you can find some information about the people who are attending the party.

Aysha, Ben, Carla, Damien, Eric, Fan, Genaro, Hannah, Isaias, Jessica, Kyla, Laila, Max, Nazek, Owen

Close Friends (Try to put them together)	In a Fight (Try to keep them apart)	
Aysha and Damien	Aysha and Genaro	
Max and Isaias	Ben and Hannah	
Nazek and Laila	Fan and Max	
Owen and Genaro	Damien and Laila	
Ben and Jessica	Isaias and Owen	
Genaro and Eric	Kyla and Jessica	

Objective

Find the best possible arrangement of guests at the party. Draw your solution in the space below. To help you can cross out the letters of the names you've assigned in the row below. First: Develop a plan

	Define	Prepare	Try	Reflect
Birthday Guests				

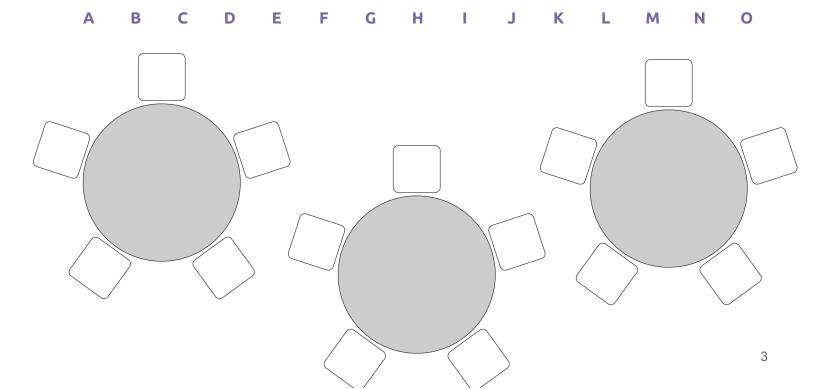


Table 1 names:

Table 2: names:

Table 3 names:

Once You're Done

Finish up the last two sections "Try" and "Reflect" located on top of the tables

Redesign Your Classroom

Overview

You and your friends will be redesigning your classroom. You only have one school day to make it happen, but otherwise how you plan it is up to you. Plan the best looking classroom that you can!

Develop Goals

Talk with your group for a few minutes. What are the most important things about the classroom? Can everyone see the teacher? How will you move everything? Write down the goals you'll use to decide what makes a good plan.

Goals	How My Plan Helps Reach this Goal
Everyone can still see the teacher	
Everyone should be able to	

Make a Layout

Every member of your group should separately start designing a layout. You should select what should go where and make sure it all fits in the room. For each goal your group chose, list how your layout helps to reach it in the right column. In the space below draw or describe your redesigned classroom.

New classroom design:

Share Your Layout and Get Feedback

Share the layout you developed with your teammates and explain why you think it is the best possible layout given the goals you chose. Afterwards, record their feedback and reactions to your design in the space below. Is there anything that needs to change? How could your layout improve?

Improve and Finalize

Using the feedback from your teammates update your layout. In the space below, write down the new design that you and your group agreed on.

Redesign

Once You're Done

Head to the last page of the activity guide and fill in the row there for the "Redesign Your Classroom" in the table.

Problem Solving Process Notes

Reflecting on Using the Process

How did you use each step of the problem solving process to solve this problem? Give examples of what each step looked like as you were solving that problem.

_	Define	Prepare	Try	Reflect
Redesign Your Classroom				

The Purpose of Each Step

For each step in the problem solving process, write one sentence explaining its purpose. Why is it included in the problem solving process?

Define:	
Prepare:	
Try:	
Reflect:	

Defining Problems with Questions

Before starting to solve a problem it's important that you have defined it well. What questions or strategies can you use to better define or understand a problem? Record them in the space below.