

Storing Text

Your Tasks

- ☐ Assign group roles
- ☐ Develop a protocol to represent the 50 states
- ☐ Write a protocol for sending letters
- ☐ Get acquainted with the Internet simulator
- ☐ Send a simple text message
- ☐ Send a multi-word/number text message
- ☐ Compare your protocol to the ASCII System
- ☐ Define key vocabulary
- ☐ Receive credit for this lab guide

☐ Assign group roles

Before you continue, record your group number, then collaborate with your group and assign each person a role. Each role and a description is provided below.

Project manager (PM)	Leads the team discussion and keeps the team on task and on schedule. Make sure the final lab is submitted. Considers how the team is working and ensures all voices are heard.
Recorder (R)	Records answers for the team, or ensures that all members have correct answers. Presents answers (or questions) to the class, instructor or other teams.

Name	Role

Letter	Binary	Letter	Binary
A		N	
B		O	
C		P	
D		Q	
E		R	
F		S	
G		T	
H		U	
I		V	
J		W	
K		X	
L		Y	
M		Z	

□ Get Acquainted with the Internet Simulator

We will be using the Internet Simulator to test out your protocol. Because, just as computers store letters as numbers, the Internet also transmits letters as numbers.

To connect with your partner using the Internet simulator, you will need to do the following,

- If you haven't already done so, navigate to <http://studio.code.org> to create an account
- If you haven't already done so, you will need to join this course. You will need to get the course code from Ms. Pluska
- Once you have done the above, navigate to the link below and connect with your partner.

<https://studio.code.org/s/csp1-2018/stage/7/puzzle/2>

□ Send a simple text message

Consider the three text messages below:

- *OMG*
- *LOL*
- *IMO*

Using the binary convention you developed above, try sending a simple one word text message to your partner.

Pick one of the above messages to send... see if your partner can receive it!

Message sent	Message received

Message sent	Message received

Compare the ASCII system to the system you developed.

- What's the same as the system you created?
- What's different?
- What is most interesting or surprising about this system?

Write your response below

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□ Define Key Vocabulary

Use the Internet as a resource and write definitions for the following,

ASCII
Unicode

□ Receive Credit for this lab guide

Submit this portion of the lab to Pluska to receive credit for the lab guide.

