

# The Need for DNS

Dec. 4, 2017

# Vocabulary

**DNS**: an abbreviation for **Domain Name System**, the Internet's system for converting alphabetic names into numeric IP addresses.

# Do Now

When you walked in, I handed you a slip of paper with an IP address on it.

You also should have a Names and Addresses - Worksheet worksheet.

For the next 5 minutes, your goal is to complete an accurate list of IP addresses and names for all students in the room. You may only talk to one person at a time, but you may exchange as much information with that person as you want.



# Think

Why did I keep taking your IP addresses?

This simulates the fact that a computer's IP address does not stay the same.

For example, a person's IP address on their phone changes quite frequently as they move around throughout their day and their phone tries to connect to the Internet from different locations.



# Think

Do you think the system we just simulated is an efficient way of collecting IP addresses?

Are there any inefficiencies you observe? How could it be made better?

A central list would be better, and the Internet has a system for that.



# Activity

Please pick a partner  
not sitting near you

You and your partner will  
complete the DNS  
Partner Questionnaire  
Worksheet

Let's log on and look at  
how things in the  
Internet Simulator this  
time



**What does Vint Neff**  
**have to say?**

# Homework

Please complete

Lesson 12: The Need for DNS

“Check Your Understanding”

Questions 4-7