

Hello there 3rd graders!

Today we are going to talk about the internet and networks! More specifically, you'll learn what keywords mean such as; IP addresses, DNS, DHCP, TCP, routers, and HTTP. In addition to learning what they mean, you will learn how they connect with each other. IP addresses are the numerical labeling system for each packet, or set of information that is sent or used over the Web. DNS is the system that assigns names, like '[www.google.com](http://www.google.com)' to different websites and pockets of information, like a phonebook assigning phone numbers to the people who own the phone. DHCP is gateway that matches the IP label to the packet of information that it belongs to. Routers then tell these packets of information where they need to go, commanding them by the IP address. Routers are very much like traffic directors. TCP makes sure that the sent packets are rearranged the intended way, and if they are not, TCP then organizes them correctly. TCP is like a child taking apart a jigsaw puzzle, separating it in different bags, taking it to a friends home, then solving the jigsaw puzzle again. HTTP ensures that data is exchanged correctly and that users can find it without having to know the full URL of each website. This is like using a person's nickname instead of calling them by their full first middle and last names.