**Day 1 – Domain Names & IP Addresses**

**Warm-Up Activity**

1. Go to the web page: <https://centralops.net/co/>
2. Select the “NsLookup” tool and search for the following domains:
   1. [www.peelschools.org](http://www.peelschools.org)
   2. some of your favorite / popular domains
3. Try the “Traceroute” tool for the same domains
   1. What is the purpose of this tool?
4. Try the “Ping” tool for the same domains
   1. What is the purpose of this tool?
5. Try the “Whois” tool for [www.peelschools.org](http://www.peelschools.org)
   1. Who is the owner of this domain?
   2. Who is the registrar of this domain?
   3. When does the registration expire?

**Presentation Notes: Client-Server Model**

1. What is a client?
   1. Where does it run?
   2. What does it do?
   3. List some examples of a client.
2. What is a server?
   1. Where does it run?
   2. What does it do?
   3. List some examples of a server.
3. Explain why you need both a client and a server to complete an internet application?

**Presentation Notes: Domain Names & IP Addresses**

1. What is a Domain Name?
   1. What is it used for?
   2. Is it for human or computer use?
   3. Provide an example of a Domain Name.
2. What is a IP Address?
   1. What does IP stand for?
   2. What is it used for?
   3. Is it for human or computer use?
   4. Provide an example of an IP Address.
3. Who can register a domain name?
4. Who controls domain names for countries (i.e. .CA, .UK, etc.)?
5. Who controls domain names like .COM, .ORG, etc.?
6. Who owns and controls IP Addresses?
7. If you own a Domain Name does that mean you also own an IP Address?
8. What services do *middleman* companies like GoDaddy.com provide?
9. What are some issues and features related to IPv4?
10. What are some issues and features related to IPv6?
11. What are some issues and features related to 5G Networks?