Chapter 3

Half–term tasks

Over half-term you need to study Internetworking Basics - chapter 3.

Chapter 3 covers the

- general properties of electricity
- the electromagnetic spectrum
- copper cables (coaxial, STP and UTP)
- Optical fiber and light energy.
- The laws of refraction and reflection
- Multimode and single-mode fiber
- Wireless media and spread-spectrum
- WLAN devices
- WLAN authentication and security

You need to read the notes on:-

Notes: Cables, Connectors and Other Media

Or listen to this (same thing really)

Flash Flips Cards: Cables and Connectors

And try the practice questions

Quiz 3a - 10 questions
Quiz 3b - 10 more challenging questions

The flip cards may help you remember new terms

Flips Cards: Cables and Connectors
Flips Cards: Wireless Media
Flips Cards: Network Standards

Then you need to complete the portfolio exercise

Portfolio Paper: Simple Networks, their Cables and Connectors

Additional Resources

The following web links may help:-

The Basics of Electricity

http://www.gelighting.com/eu/institute/ firstlight/module01/01.html

Coaxial Cable

http://searchnetworking.techtarget.com/ sDefinition/0,,sid7_gci211806,00.html

Categories of UTP Cabling

http://searchsmallbizit.techtarget.com/sDefinition/0,,sid44_gci211752,00.html

Networking Basic's Cables and Other Stuff

http://www.waterwheel.com/Guides/ networking_basics_0006.htm

Electromagnetic Spectrum

http://imagine.gsfc.nasa.gov/docs/science/ know_l1/emspectrum.html

The Transmission of Wave through Dense media – Reflection and Refraction

http://www.phy.ntnu.edu.tw/java/ propagation/ propagation.html

The Guts of WLAN Security Policy

http://www.80211-planet.com/tutorials/ article.php/ 149915