To Create a Private Network for the Room

Pod Router/AP (ie Asus RT-AC68U)

Room Router (ie Cisco 1941)

Campus Network

Room Switch
24-port Gbps if possible

IoT Pod
This will be duplicated for each group

Mesh WiFi

WiFi Lighting

PoE Switch

IP Surveillance Cameras

Phones / Tablets

Echo Dot

Raspberry Pi (Microcontroller)

Elegoo Project Kit

SmartThings Hub

Hue Hub

Thermostats

Ring Doorbell

Smart Doorlock

Door/Window Sensors

Media Distribution & Control

FireTV Stick

Logitech Harmony Elite Remote

Roku

HDHomeRun

SmartTV

Desktop Computer
(clasroom computer)

Laptop Computer
(such as Surface Tablet)

IP Phone

AV Receiver

SmartTV

WiFi Lights

WiFi Plug

WiFi Light Switch

WiFi Lights

Thermostats

Ring Doorbell

Smart Doorlock

Door/Window Sensors