

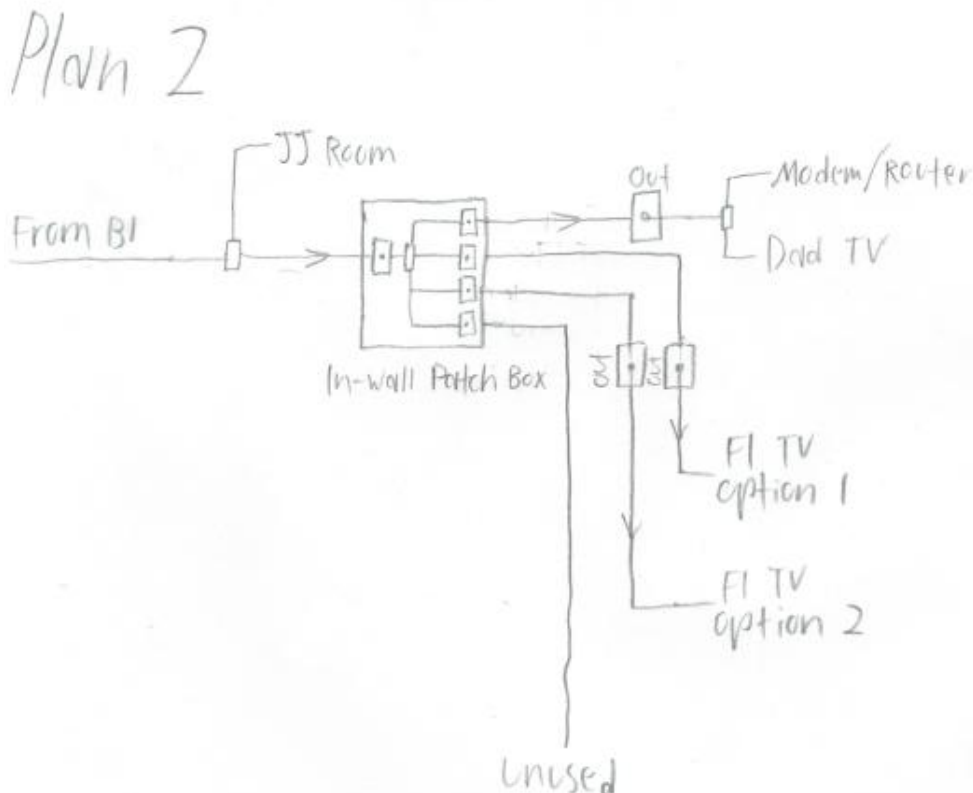
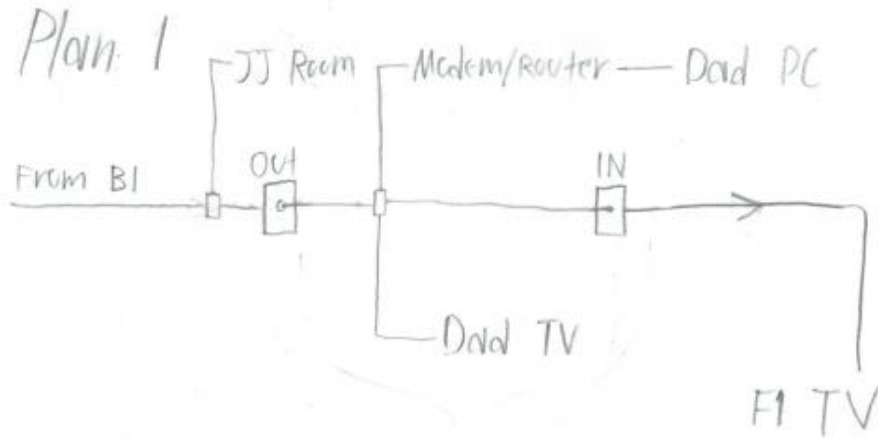
**EDUCATIONAL ASSIGNMENT for JOSEPH JOHN WUNDERLICH** for 11th grade

This assignment covers the following Educational Objectives (Subjects marked with a "■" are the main subject, and those marked with an "□" are secondary subjects):

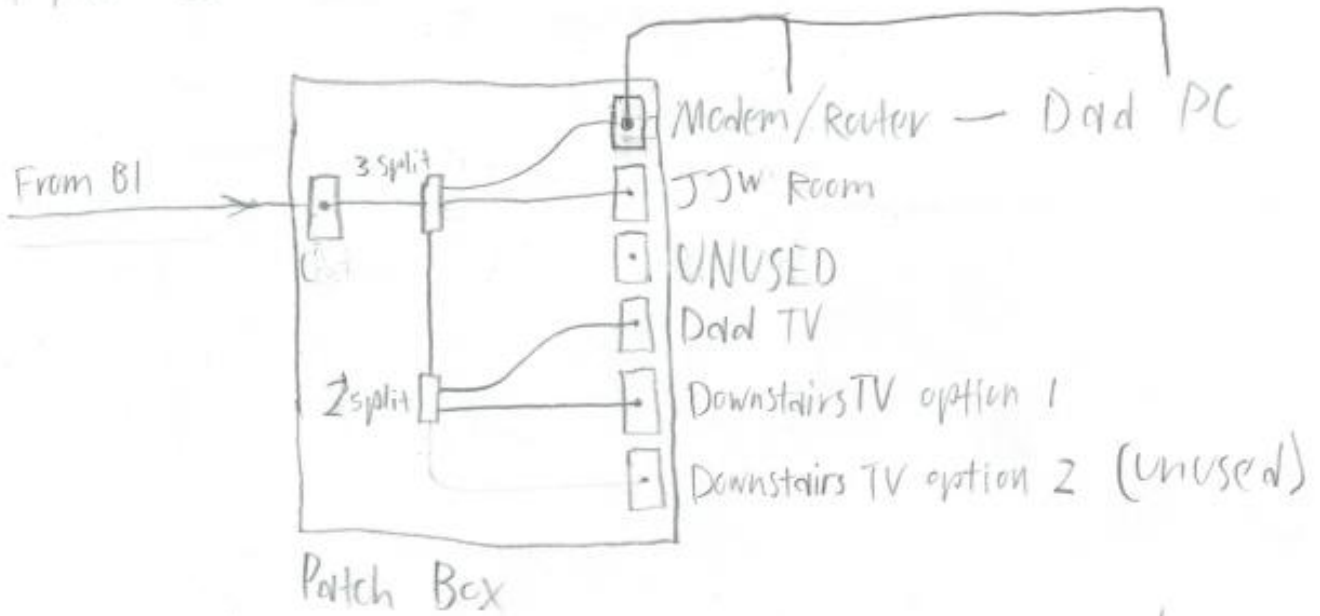
- Physics
- Electrical Engineering

**Solve the following problem. Use a pencil.**

Assess **ELECTRICAL POWER** needs, **TV-CABLE RECEPTION**, and **BROAD-BAND WIRED and WIRELESS COMPUTING** needs in our house before we route new wires for the renovations, and then design an optimal organizing and routing of TV and Computer Broadband wires to minimize cost while maintaining signal quality at all locations. Also use your understanding of how a current in a wire creates a **MAGNETIC FIELD WHICH CAN INDUCE A CURRENT INTO AN ADJACENT WIRE** (i.e., especially a higher voltage 110Volt or 220Volt AC power circuit touching a lower-voltage coaxial cable carrying high-speed broadband data) to **PRESERVE SIGNAL QUALITY** in Broadband wires.

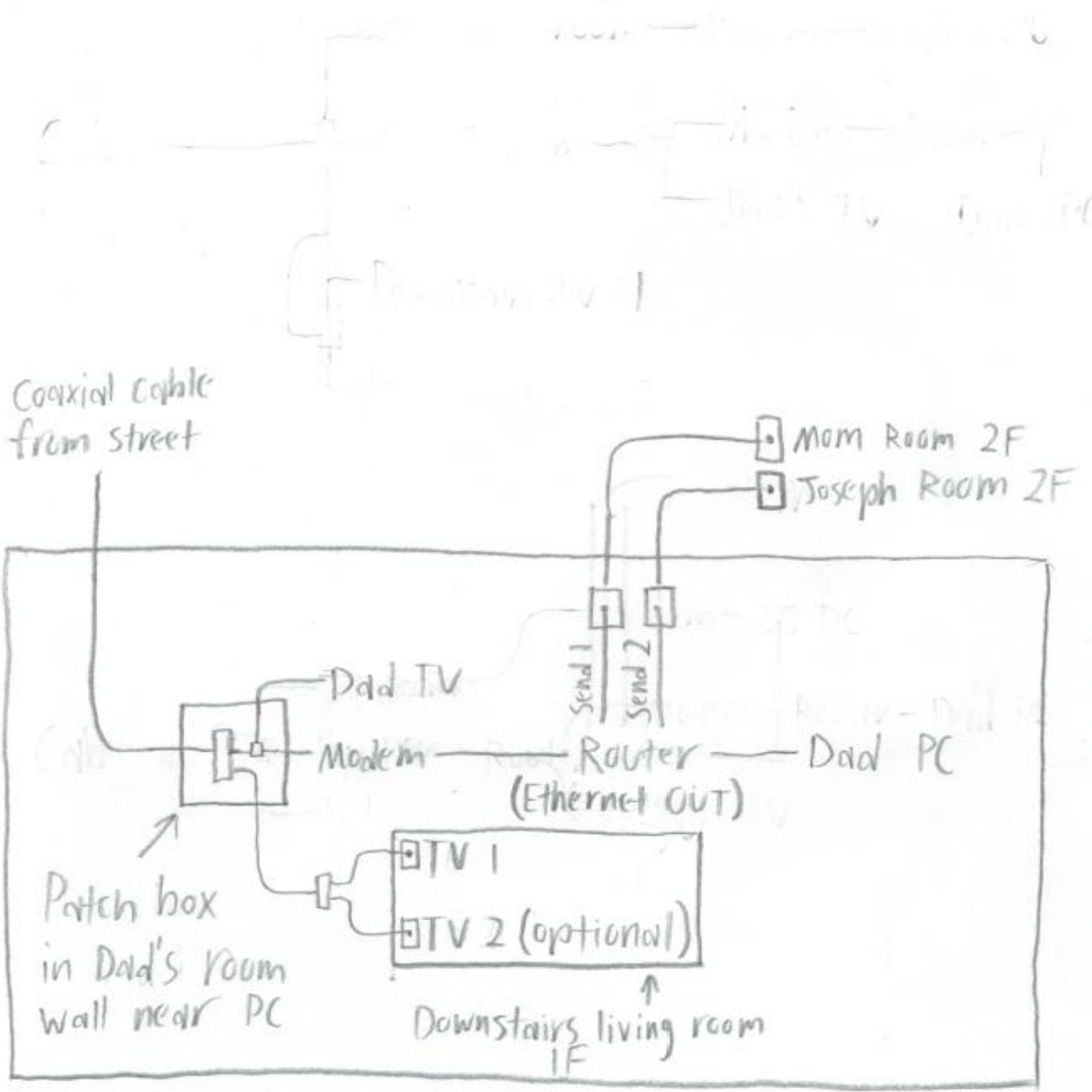


# Plan 3



All in Dad's Room

# Plan 4 (Final)





Roll over image to zoom in

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