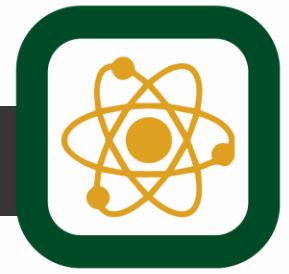


# LEARNING JOURNEY

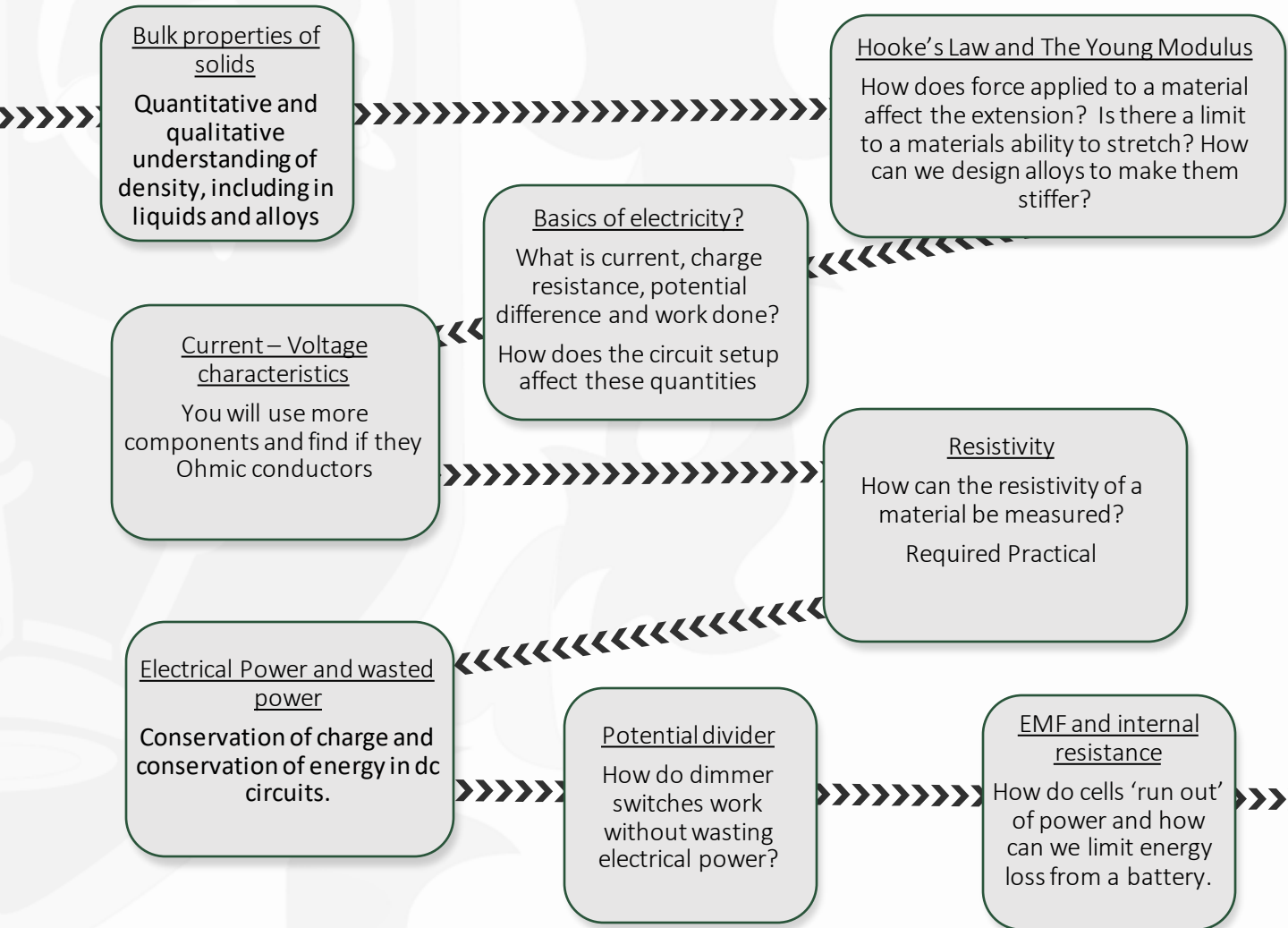
## Physics



### Materials and Electricity

Year 12 Physics Spring Term (Teacher 1)

The materials section continues with a study of materials considered in terms of their bulk properties and tensile strength. Electricity builds on and develops earlier study of these phenomena from GCSE. It provides opportunities for the development of practical skills at an early stage in the course and lays the groundwork for later study of the many electrical applications that are important to society. Engineers need certainty of materials to design anything in modern society. Knowing the strength, ductility, conductivity and stiffness of materials is vital in all applications



**TUDOR HABITS AND VALUES:** Show grit and courage as you attempt increasingly complex practicals and concepts, utilising all your problem solving skills.

**VOCABULARY;** density, UTS, ductile, brittle, stress, strain, current, potential difference, charge, series, parallel, Ohmic conductor, resistivity, internal resistance, EMF