

LEARNING JOURNEY

Physics



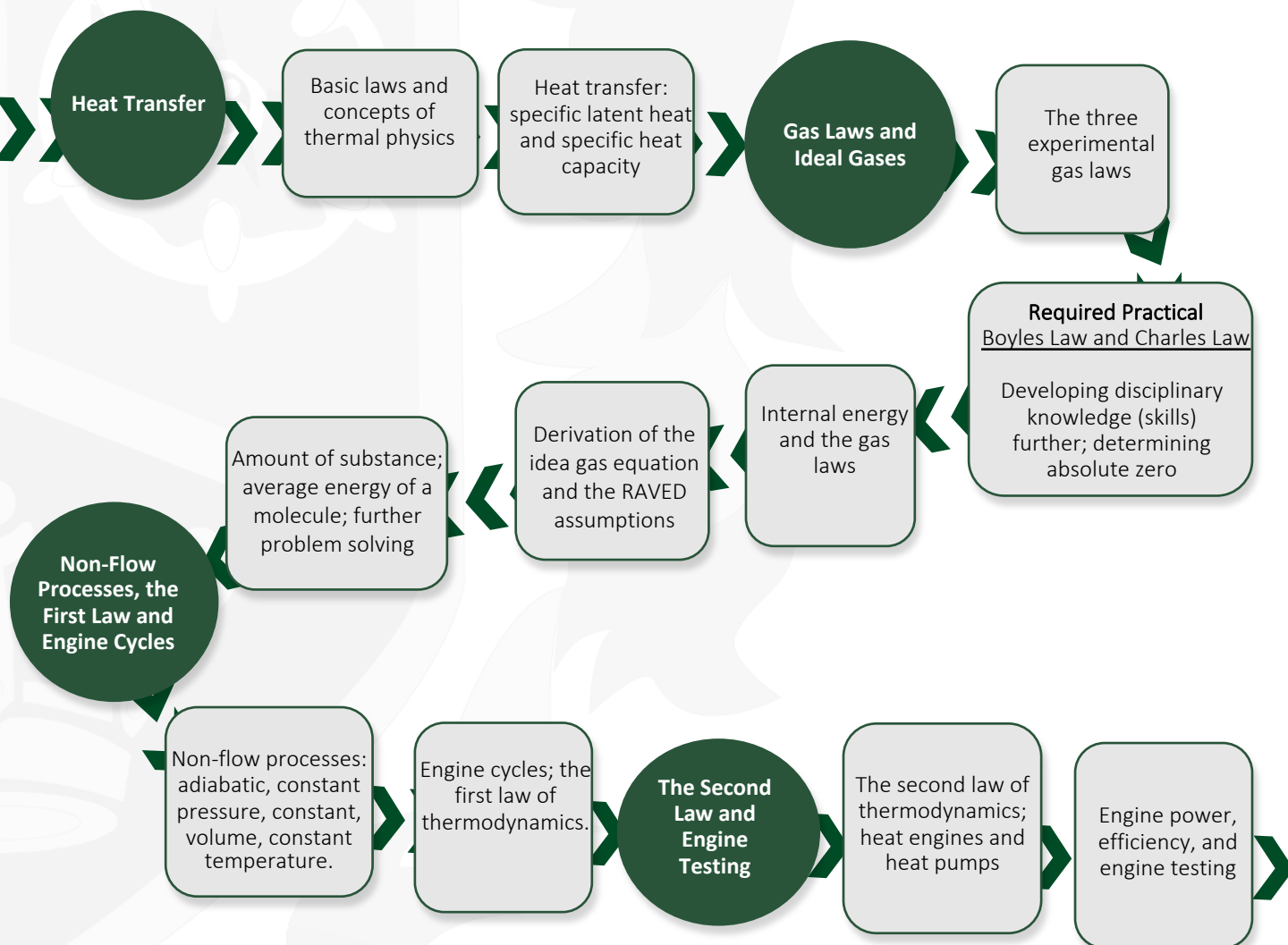
Thermal Physics and Engineering Thermodynamics

Year 13 Spring Term (Teacher Two)

Building on GCSE studies of heat and gas pressure, the first parts of this topic will build your problem solving skills using a range of formulae and challenges, and further develop your practical skills (disciplinary knowledge).

You will also increase your conceptual understanding (substantive knowledge) of internal energy and the behaviour of gases at micro and macroscopic scales.

We will then apply this knowledge, along with the first and second laws of thermodynamics, to non-flow processes and whole engine cycles, for the second half of the Engineering Physics topic.



TUDOR HABITS

You will continue to work on building your toolbox of problems solving skills to support your metacognition and self-regulation

VOCABULARY:

system, adiabatic, heat/work, absolute zero, randomly distributed