LEARNING JOURNEY COMPUTER SCIENCE

JOURNEY TO THE TRIAL EXAM – PAPER 1

Paper 1 (Computer Systems) → Binary → Data representation (how data is stored in computer systems) → Data compression → Computer networks (LANs and WANs, wired and wireless networks) → Threats to a network → Primary and secondary storage → Utility software → Open source and proprietary software → Ethical, legal and privacy issues → TRIAL EXAM

WE ARE HERE

The learning journey you will follow here isn't so much about subject *content*, but about metacognition; reflecting on how you learn and considering ways to improve. With a focus on exam questions, you will learn how to *refine* your responses in order to abstract any unnecessary detail, and also use *precision* to ensure you have utilised appropriate *technical terminology* and referred to the context of the question. You will also learn how to evaluate the different uses of technology to arrive at considered conclusions, and in doing so, demonstrate the mastery required in order to answer extended questions.

TUDOR HABITS
You will develop grit and resilience as you develop critical thinking and metacognitive skills on this learning journey.
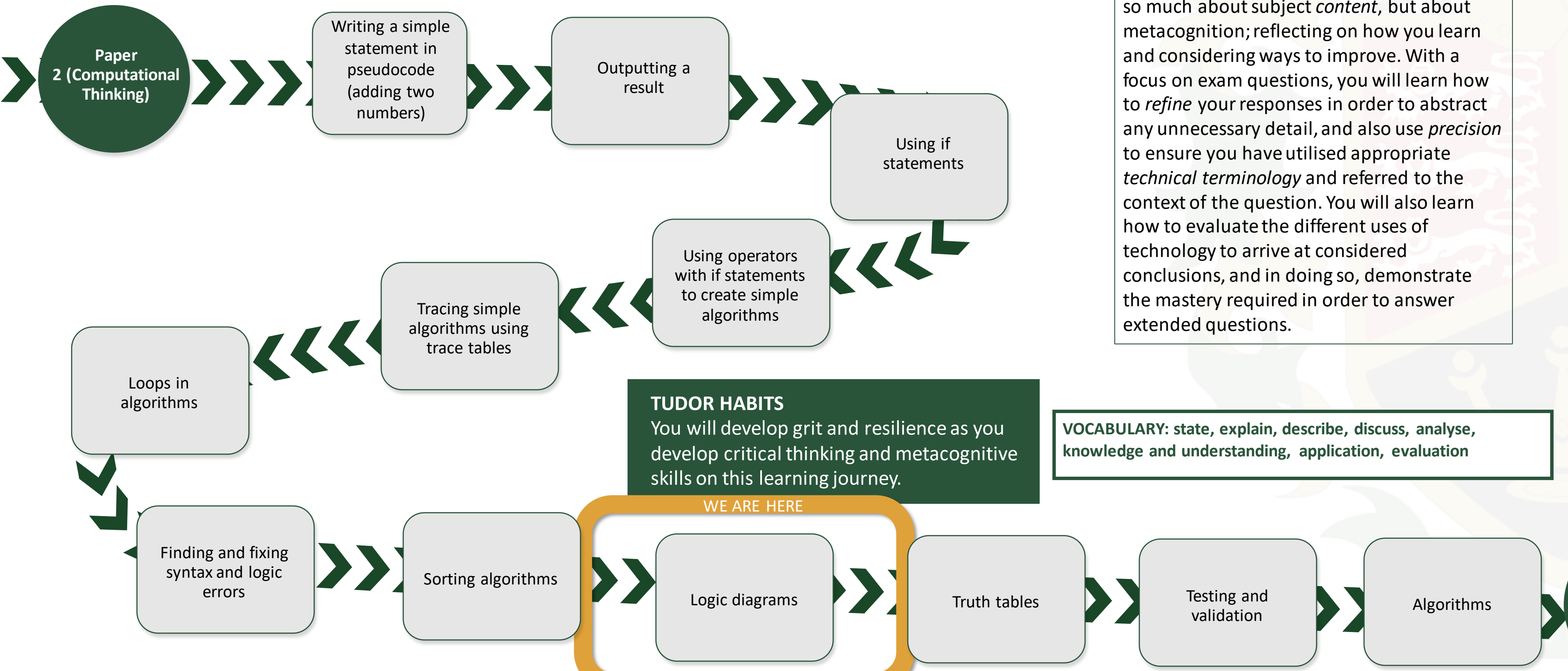
VOCABULARY: state, explain, describe, discuss, analyse, knowledge and understanding, application, evaluation

LEARNING JOURNEY COMPUTER SCIENCE

JOURNEY TO THE TRIAL EXAM – PAPER 2

Paper 2 (Computational Thinking)

Writing a simple statement in pseudocode (adding two numbers)

Outputting a result

Using if statements

Using operators with if statements to create simple algorithms

Tracing simple algorithms using trace tables

Loops in algorithms

Finding and fixing syntax and logic errors

Sorting algorithms

Logic diagrams

Truth tables

Testing and validation

Algorithms

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