

Lucas Rey

Aeronautical and Mechanical Engineer · lucas@lucasrey.com ·
+39 345 7976656
lucasrey.com · eng.ox.ac.uk/people/lucas-rey

DPhil Candidate, Engineering Science, University of Oxford (Oxford Thermofluids Institute, Rolls-Royce Research Collaboration) · MRes,
University of Cambridge · MEng and BEng (First Class Honours), Mechanical Engineering · Chartered Professional Engineer (Italy)

5 September 2026

To any school or college that downloads this pack.

Dear colleague,

The ESAT mock papers are enclosed, ready to print. There are five module papers enclosed, each with a question paper, the worked solutions in full, a keys only mark scheme and a separate answer sheet. There is also a reference setting out what the ESAT assesses, module by module, for a candidate to revise from.

Print as many copies as you need.

On the questions. This is the free sample pack, so these questions ARE published: they live on lucasrey.com and anyone may download them. Your students may already have seen them. That is the one way this pack differs from a commissioned one, and it is the whole reason a commissioned one exists: its questions are drawn fresh, recorded against your school, and issued to nobody else and published nowhere. Every question here is also now retired from that pool, so a pack you order cannot contain one of them.

Sitting on paper. Run it on paper rather than on screen. Printed papers are more reliable for a room of any size and they avoid every device and login problem on the day.

Notes for the exam room. The format, the syllabus coverage and the marking all follow the published ESAT specification: 27 questions, 40 minutes, one mark each, no penalty for a wrong answer, no calculator. A few things are worth knowing when you run it and when you read the marks.

- Run this on paper, then send the cohort to the official on-screen practice at least once before the window of 12 to 16 October 2026. The real ESAT is sat on screen at a Pearson test centre, so a printed mock trains the mathematics and the pacing while the official platform trains the interface. Doing both is what a full rehearsal looks like.
- Reading the scores: the option count varies question by question as it does on the real paper, 57 at 5 options, 28 at 6 options, 12 at 7 options, 38 at 8 options. A blind guess therefore scores about 0.16 here, against roughly 0.14 across the published ENGAA and NSAA questions and 0.20 on a paper that offered five throughout.
- Questions built around a diagram, by module: Mathematics 1 2, Physics 6, Chemistry 2, Biology 9.
- Difficulty is set on what a question demands: the number of worked steps, the length of the working, and the time a fast solver needs, rather than on a label somebody typed. Each module carries a spread from one-step to five-step questions rather than a uniform level, because a paper with no answerable opening questions does not discriminate at the bottom of the range. One honest caveat: the official papers publish an answer key and no worked solutions, so that spread is matched to our own reference papers. Stem length and diagram share, above, are measured against the official papers themselves.
- How it was checked: every question was independently re-derived from its own stem, its key confirmed as uniquely correct, and each wrong option traced to a specific error that produces that exact value. The pack is then checked mechanically against the specification. That is a question-by-question review rather than one read through end to end, and it is the stronger of the two.

Scope. Five unseen module papers with full worked solutions and mark schemes. Marking and cohort analysis are not included in this engagement. The mark scheme lets your department mark in house and see which topics the cohort is losing marks on. If you would like the marking and the analysis as a separate piece of work, tell me and I will quote.

Cost. Nothing. This pack is free to download and free to use with your own students. It is not for resale or republication.

If anything needs reissuing, a module renumbered or a question you would rather swap out, tell me and I will send a corrected version at no charge.

Yours sincerely,

Lucas Rey

SAMPLE PAPER
lucasrey.com