

Paper	Experimental Project	BPhO Physics Challenge (formerly A2 Challenge)	BAAO Astronomy & Astrophysics Challenge "Astro Challenge"	BAAO Junior Astro Challenge	BPhO Round 1	Senior Physics Challenge Online Competition	BAAO Astronomy & Astrophysics Olympiad Competition	Intermediate Physics Challenge Online Competition	BPhO Round 2	Senior Physics Challenge	Intermediate Physics Challenge	Junior Physics Challenge
Year group	Yr 10/11 & Yr 12/13	Yr 13 or below	Yr 13 or below	Yr 10 & Y11	Yr 13 or below	Yr 12 or below	Yr 13 or below	Yr 11	Yr 13 or below	Yr 12 or below	Yr 11	Yr 10
Registering for paper - DEADLINE	Via Online Shop . Available from: w/c 21 st June 2021	Via Online Shop . Available from: w/c 6 th Sept 2021. Deadline – Wed 24 th November 2021 at 16.00	Via Online Shop . Available from: w/c 6 th Sept 2021	Via Online Shop . Deadline: Tue 2 nd November 2021 at 16.00	Via Online Shop . Deadline: Electronic paper is available to order until Mon 8 th Nov 2021, 16.00	Via Online Shop . Deadline: Fri 21 st Jan 2022 at 17.00	By invitation <u>or</u> by teacher request. <i>Electronic version is available to order until Thurs 20th Jan 2022</i>	Via Online Shop . Deadline: Fri 28 th Jan 2022 at 17.00	By Invitation only. <i>(only students who achieve Top Gold in Round 1)</i>	Via Online Shop . Deadline: Mon 28 th Feb 2022. <i>Electronic version only</i>	Via Online Shop . Deadline: Mon 7 th March 2022. <i>Electronic version only</i>	Via Online Shop . Deadline: Tue 26 th April 2022 at 17.00
Test date	Submission date: By 21 st Jan 2022	Certificate deadline: 23 rd Dec 2021	Certificate deadlines for: Distinction: Fri 22 nd Oct 2021. Merit Fri 3 rd Dec '21	Active from Fri 5 th Nov - Wed 24 th Nov 2021	Fri 12 th Nov 2021. Submission date: by Fri 19 th Nov 2021	Active from Mon 24 th - Fri 28 th Jan 2022	Mon 24 th Jan 2022	Active from Mon 31 st Jan – Fri 4 th Feb 2022	Mon 31 st Jan 2022	Fri 4 th March 2022	Fri 11 th March 2022	Active from Fri 29 th April - Wed 18 th May 2022
Overview	The project gives students hands-on experience of planning and undertaking an open-ended expt., working in ones, twos or threes, and communicating their findings.	To develop students' interest in problem solving. It prepares them for questions which require analysis of information to work out the answer through the use of "simpler" physics ideas.	A mix of astronomy and physics to allow students to analyse observational data through to a conclusion. Physics ideas applied to astronomy through problem solving. Based on core physics, with extra detail being supplied in the paper.	Two online multiple choice quizzes to generate interest in a national astronomy competition. Many easy marks with some more testing questions. (2 x 30 questions)	Our flagship competition with a dual purpose: to challenge and reward the best problem-solving physicists in UK schools and to select the UK Teams for the IPhO and for the IOAA.	Two online m/c quizzes to generate interest in a national physics competition. (2 x 20 questions)	Similar to the Astro Challenge Paper but taking the ideas a little further. Based on core physics. Extra syllabus material is given at BPhO.org.uk online. For physicists in Yr 13/ equivalent , interested in astronomy and physics problems.	Two online m/c quizzes to generate interest in a national physics competition. (2 x 20 questions)	A more challenging paper about problem solving through setting up models, making predictions and explaining real world effects.	Stretches physics thinking and encourages students to apply physics they know to novel situations. Provides an excellent tool to stretch and challenge good students.	The paper has a more mathematical style for this age group and includes m/c and short answer sections. Suitable for students who are predicted to achieve good grade for either Dual Award or separate physics.	Two online multiple choice quizzes to generate interest in a national physics competition. Many easy marks with some more testing questions. (2 x 30 questions)
Length of exam	Open ended	1 hour	1 hour	2 x 25 minutes	2 h 40 m - (can be sat in two sections)	2 x 30 minutes	3 hours	2 x 30 minutes	3 hours	1 hour	1 hour	2 x 25 minutes
Marked	Teachers select t best entry to submit for age groups G and A	In school, mark scheme provided	In school, mark scheme provided. Out of 30 marks.	An Online competition	By the BPhO team. Return papers for marking by Fri 19th Nov 2021	An Online competition	By the BAAO team. Return papers for marking by Fri 28th January 2022	An Online competition	By the BPhO. Return papers for marking by Fri 4th February 2022	In school, mark scheme provided	In school, mark scheme provided	An Online competition
Certificates	Gold, Silver, Bronze, Commendation certificates emailed out.	Merit: 20/50 or above. Participation: 19 marks or below. Certificates ordered online	Distinction: $\geq 18/30$ papers should be posted in by Friday 22nd Oct 2021 . Merit $\geq 12/30$ & Participation certs emailed out.	Gold, Silver, Bronze, Participation certificates emailed out.	Top Gold, Gold, Silver, Bronze I, Bronze II, Particip'n certificates emailed out.	Gold, Silver, Bronze. Participation certificates emailed out.	Gold >60%, Silver >40%, Bronze >20% and Commendation certificates emailed out.	Gold, Silver, Bronze. Participation certificates emailed out.	≈ 15 Gold ≈ 15 Silver ≈ 20 Bronze	Gold, Silver, Bronze, Participation certificates emailed out.	Gold, Silver, Bronze, Participation certificates emailed out.	Gold, Silver, Bronze. Participation certificates emailed out.
Book prizes	Best Gold award winner/s	We cannot award bookprizes during the COVID-19 crisis unfortunately (from practical considerations)					Top 100 Gold award winners	Top 25 Gold award winners	Squad invited to Royal Society	Top 25 Gold award winners	Top 25 Gold award winners	
Cost (for UK schools – Int'l see web page)	Free Electronic paper	Free Electronic paper	Free Electronic paper	£20 for a whole school	£18 per entry (two free entries for non-fee paying schools).	£20 for a whole school	Free for invited students or £8 per paper. Papers posted.	£20 for a whole school	Free - papers posted	Free Electronic paper	Free Electronic paper	£30 for a whole school

Rounds 2 of the BPhO is by invitation only and with Round 1 is used to select the UK team for the International Physics Olympiad. Round 3 is open to the top 14 students who are interested in the participating in the IPhO. The paper is sat at the University of Oxford Training Camp. The BAAO Competition Paper is largely by invitation, but teachers may request to enter students also. This and BPhO Round 1 are used for selection of the UK team for the IOAA. Papers are designed to favour all exam boards equally. Some of the students (and a teacher) achieving the highest results in the Experimental Project, The British Physics Olympiad, The British Astronomy & Astrophysics Competition, Senior and Intermediate Physics Challenges will be invited to a prize giving ceremony at the Royal Society (if open again). More information about the competitions can be found here: www.bpho.org.uk.