

Unit level raw mark and UMS grade boundaries

Cambridge Nationals

Understanding your grade boundaries

Cambridge Nationals are unitised qualifications. This means the qualifications can be taken in chunks, or units, throughout the course. At the end of the course, you pull together all of the unit results into an overall qualification grade.

Calculating your unit grade

The mark you get on each exam paper or coursework unit will be your unit mark. This is sometimes called a 'raw' mark.

However, the difficulty of Cambridge Nationals exam papers may vary. In order to make sure results are consistent from year to year, we convert the raw marks to a common scale with grade boundaries that do not change. This scale is known as the uniform mark scale (UMS).

A grade boundary is the minimum mark you need to get a grade. For example, if the unit grade boundary for a merit at Level 2 is 42 UMS, you need to get at least 42 UMS to achieve a merit at Level 2. A mark of 41 UMS would therefore be a pass at Level 2.

The unit raw mark and UMS grade boundaries are provided within this document. If you want to convert a specific raw mark to UMS, you can use our [online tool](#).

Units are graded as follows:

- 2* – distinction* at Level 2
- d1 – distinction at Level 1
- d2 – distinction at Level 2
- m1 – merit at Level 1
- m2 – merit at Level 2
- p1 – pass at Level 1
- p2 – pass at Level 2

Calculating your overall qualification grade

To calculate your overall qualification grade, we add the UMS for each unit to get your total UMS. We then check the total UMS against the qualification UMS grade boundaries. These are available [on our grade boundaries page](#).

Level 1/2 Cambridge Nationals in Child Development

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u	
R018	01	Health and well-being for child development	Raw	80	66	59	52	46	39	32	26	0
			UMS	120	108	96	84	72	60	48	36	0
R019 A	01	Understand the equipment and nutritional needs of children from birth to 5 years (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R019 B	02	Understand the equipment and nutritional needs of children from birth to 5 years (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R020 A	01	Understand the development of a child from birth to 5 years (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R020 B	02	Understand the development of a child from birth to 5 years (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0

Level 1/2 Cambridge Nationals in Creative iMedia

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u	
R081	01	Pre-production skills	Raw	60	53	47	41	35	29	23	17	0
			UMS	60	54	48	42	36	30	24	18	0
R082 A	01	Creating digital graphics (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R082 B	02	Creating digital graphics (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R082 C	03	Creating digital graphics (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R083 A	01	Creating 2D and 3D digital characters (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R083 B	02	Creating 2D and 3D digital characters (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R083 C	03	Creating 2D and 3D digital characters (Visiting Moderation)	Raw	60	No entry in June 2019							
			UMS	60	54	48	42	36	30	24	18	0
R084 A	01	Storytelling with a comic strip (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R084 B	02	Storytelling with a comic strip (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R084 C	03	Storytelling with a comic strip (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R085 A	01	Creating a multipage website (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R085 B	02	Creating a multipage website (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R085 C	03	Creating a multipage website (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R086 A	01	Creating a digital animation (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R086 B	02	Creating a digital animation (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R086 C	03	Creating a digital animation (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R087 A	01	Creating interactive multimedia products (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R087 B	02	Creating interactive multimedia products (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R087 C	03	Creating interactive multimedia products (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R088 A	01	Creating a digital sound sequence (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R088 B	02	Creating a digital sound sequence (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R088 C	03	Creating a digital sound sequence (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R089 A	01	Creating a digital video sequence (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R089 B	02	Creating a digital video sequence (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R089 C	03	Creating a digital video sequence (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R090 A	01	Digital photography (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R090 B	02	Digital photography (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R090 C	03	Digital photography (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R091 A	01	Designing a game concept (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R091 B	02	Designing a game concept (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R091 C	03	Designing a game concept (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R092 A	01	Developing digital games (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R092 B	02	Developing digital games (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R092 C	03	Developing digital games (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0

Level 1/2 Cambridge Nationals in Engineering

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u	
R101	01	Engineering principles	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R102 A	01	The engineered business world (OCR Repository)	Raw	60	No entry in June 2019							
R102 B	02	The engineered business world (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R103 A	01	Sustainable engineering (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R103 B	02	Sustainable engineering (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R104 A	01	Optimising performance in engineering systems and products (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R104 B	02	Optimising performance in engineering systems and products (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R105	01	Design briefs, design specifications and user requirements	Raw	60	53	47	40	34	28	22	17	0
			UMS	60	54	48	42	36	30	24	18	0
R106 A	01	Product analysis and research (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R106 B	02	Product analysis and research (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R107 A	01	Developing and presenting engineering designs (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R107 B	02	Developing and presenting engineering designs (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R108 A	01	3D design realisation (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R108 B	02	3D design realisation (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R109	01	Engineering materials, processes and production	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R110 A	01	Preparing and planning for manufacture (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R110 B	02	Preparing and planning for manufacture (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R111 A	01	Computer aided manufacturing (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R111 B	02	Computer aided manufacturing (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R112 A	01	Quality control of engineered products (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R112 B	02	Quality control of engineered products (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R113	01	Electronic principles	Raw	60	53	47	41	35	29	23	17	0
			UMS	60	54	48	42	36	30	24	18	0
R114 A	01	Simulate, construct and test electronic circuits (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R114 B	02	Simulate, construct and test electronic circuits (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R115	01	Engineering applications of computers (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R115	02	Engineering applications of computers (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R116	01	Process control systems (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R116	02	Process control systems (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0

Level 1/2 Cambridge Nationals in Enterprise and Marketing

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u	
R064	01	Enterprise and marketing concepts	Raw	80	72	64	56	48	40	32	24	0
			UMS	120	108	96	84	72	60	48	36	0
R065 A	01	Design a business proposal (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R065 B	02	Design a business proposal (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R066 A	01	Market and pitch a business proposal (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R066 B	02	Market and pitch a business proposal (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0

Level 1/2 Cambridge Nationals in Health and Social Care

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u	
R021	01	Essential values of care for use with individuals in care settings	Raw	60	53	48	43	38	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R022 A	01	Communicating and working with individuals in health, social care and early years settings (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R022 B	02	Communicating and working with individuals in health, social care and early years settings (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R022 C	03	Communicating and working with individuals in health, social care and early years settings (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R023 A	01	Understanding body systems and disorders (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R023 B	02	Understanding body systems and disorders (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R023 C	03	Understanding body systems and disorders (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R024 A	01	Pathways for providing care in health, social care and early years settings (OCR Repository)	Raw	60	No entry in June 2019							
R024 B	02	Pathways for providing care in health, social care and early years settings (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R024 C	03	Pathways for providing care in health, social care and early years settings (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R025 A	01	Understanding life stages (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R025 B	02	Understanding life stages (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R025 C	03	Understanding life stages (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R026 A	01	Planning for employment in health, social care and children and young people's workforce (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R026 B	02	Planning for employment in health, social care and children and young people's workforce (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R026 C	03	Planning for employment in health, social care and children and young people's workforce (Visiting Moderation)	Raw	60	No entry in June 2019							
			UMS	60	54	48	42	36	30	24	18	0
R027 A	01	Creative activities to support individuals in health, social care and early years settings (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R027 B	02	Creative activities to support individuals in health, social care and early years settings (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R027 C	03	Creative activities to support individuals in health, social care and early years settings (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R028 A	01	Understanding the development and protection of young children in an early years setting (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R028 B	02	Understanding the development and protection of young children in an early years setting (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R028 C	03	Understanding the development and protection of young children in an early years setting (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R029 A	01	Understanding the nutrients needed for good health (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R029 B	02	Understanding the nutrients needed for good health (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R029 C	03	Understanding the nutrients needed for good health (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0
R030 A	01	Research - a project approach (OCR Repository)	Raw	60	No entry in June 2019							
R030 B	02	Research - a project approach (Postal Moderation)	Raw	60	No entry in June 2019							
R030 C	03	Research - a project approach (Visiting Moderation)	Raw	60	No entry in June 2019							
			UMS	60	54	48	42	36	30	24	18	0
R031 A	01	Using basic first aid procedures (OCR Repository)	Raw	60	54	49	43	37	31	25	19	0
R031 B	02	Using basic first aid procedures (Postal Moderation)	Raw	60	54	49	43	37	31	25	19	0
R031 C	03	Using basic first aid procedures (Visiting Moderation)	Raw	60	54	49	43	37	31	25	19	0
			UMS	60	54	48	42	36	30	24	18	0

Level 1/2 Cambridge Nationals in ICT

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u	
R001	01	Understanding computer systems (Written paper)	Raw	60	42	37	32	27	22	18	14	0
			UMS	60	54	48	42	36	30	24	18	0
R002 A	01	Using ICT to create solutions in a business environment (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R002 B	02	Using ICT to create solutions in a business environment (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R003 A	01	Handling data using spreadsheets (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R003 B	02	Handling data using spreadsheets (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R004 A	01	Handling data using databases (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R004 B	02	Handling data using databases (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R005 A	01	Creating an interactive product using multimedia components (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R005 B	02	Creating an interactive product using multimedia components (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R006 A	01	Creating digital images (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R006 B	02	Creating digital images (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0
R007 A	01	Creating dynamic products using sound and vision (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R007 B	02	Creating dynamic products using sound and vision (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
			UMS	60	54	48	42	36	30	24	18	0

Level 1/2 Cambridge Nationals in Information Technologies

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u	
R012	01	Understanding tools, techniques, methods and processes for technological solutions	Raw	80	53	45	37	30	24	18	12	0
			UMS	120	108	96	84	72	60	48	36	0
R013 A	01	Developing technological solutions (OCR Repository)	Raw	80	65	57	49	41	33	25	18	0
R013 B	02	Developing technological solutions (Postal Moderation)	Raw	80	65	57	49	41	33	25	18	0
			UMS	120	108	96	84	72	60	48	36	0

Level 1/2 Cambridge Nationals in Sport Science

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u
R041	01 Reducing the risk of sports injuries	Raw	60	54	49	43	37	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R042 A	01 Applying principles of training (OCR Repository)	Raw	60	54	49	42	36	30	24	18	0
R042 B	02 Applying principles of training (Postal Moderation)	Raw	60	54	49	42	36	30	24	18	0
R042 C	03 Applying principles of training (Visiting Moderation)	Raw	60	54	49	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R043 A	01 The body's response to physical activity (OCR Repository)	Raw	60	54	49	42	36	30	24	18	0
R043 B	02 The body's response to physical activity (Postal Moderation)	Raw	60	54	49	42	36	30	24	18	0
R043 C	03 The body's response to physical activity (Visiting Moderation)	Raw	60	54	49	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R044 A	01 Sport psychology (OCR Repository)	Raw	60	54	49	42	36	30	24	18	0
R044 B	02 Sport psychology (Postal Moderation)	Raw	60	54	49	42	36	30	24	18	0
R044 C	03 Sport psychology (Visiting Moderation)	Raw	60	54	49	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R045 A	01 Sports nutrition (OCR Repository)	Raw	60	54	49	42	36	30	24	18	0
R045 B	02 Sports nutrition (Postal Moderation)	Raw	60	54	49	42	36	30	24	18	0
R045 C	03 Sports nutrition (Visiting Moderation)	Raw	60	54	49	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R046 A	01 Technology in sport (OCR Repository)	Raw	60	54	49	42	36	30	24	18	0
R046 B	02 Technology in sport (Postal Moderation)	Raw	60	54	49	42	36	30	24	18	0
R046 C	03 Technology in sport (Visiting Moderation)	Raw	60	54	49	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0

Level 1/2 Cambridge Nationals in Sport Studies

			Max Mark	2*	d2	m2	p2	d1	m1	p1	u
R051	01 Contemporary issues in sport	Raw	60	51	44	37	31	26	21	17	0
		UMS	60	54	48	42	36	30	24	18	0
R052 A	01 Developing sports skills (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R052 B	02 Developing sports skills (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R052 C	03 Developing sports skills (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R053 A	01 Sports leadership (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R053 B	02 Sports leadership (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R053 C	03 Sports leadership (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R054 A	01 Sport and the media (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R054 B	02 Sport and the media (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R054 C	03 Sport and the media (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0
R055 A	01 Working in the sports industry (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R055 B	02 Working in the sports industry (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R055 C	03 Working in the sports industry (Visiting Moderation)	Raw	60	No entry in June 2019							
		UMS	60	54	48	42	36	30	24	18	0
R056 A	01 Developing knowledge and skills in outdoor activities (OCR Repository)	Raw	60	54	48	42	36	30	24	18	0
R056 B	02 Developing knowledge and skills in outdoor activities (Postal Moderation)	Raw	60	54	48	42	36	30	24	18	0
R056 C	03 Developing knowledge and skills in outdoor activities (Visiting Moderation)	Raw	60	54	48	42	36	30	24	18	0
		UMS	60	54	48	42	36	30	24	18	0