DESIGNER MATHS - Stage 1 Essential Mathematics (10-credits)

Assessment Overview

Assessment Type and	Details of assessment	Assessment Design Criteria		Assessment conditions (e.g. task type, page limit, time
Weighting		C&T	R&C	allocated, supervision)
Folio	CREATIVE CIRCLES 1 - 2D SHAPES: Students produce a folio of work demonstrating developing understanding of circles and other two dimensional shapes, and how they are used in everyday and design contexts. They develop proficiency in applying mathematical skills and techniques to find solutions to two dimensional shape problems. This assignment has a FOUR tasks: Task 1: SHAPE IN EVERYDAY CONTEXTS Task 2: SHAPE IN DESIGN CONTEXTS Task 3: CROP CIRCLES Task 4: 'MY WORLD' LOGO	1,2	1,2,3,4	Students present their work in a folio up to 6 A4 pages in length. They may select evidence to present in their folios from across the range of tasks they complete to create their folio.
Weighting 50%	CREATIVE CIRCLES 2 - 3D SHAPES: Students produce a folio of work demonstrating developing knowledge of cylinders, cones and other three dimensional shapes, and how they are used in design contexts. They develop proficiency in applying mathematical skills and techniques to find solutions to three dimensional shape problems including constructing shape nets. This assignment has FIVE tasks: Task 1: 3D DESIGN ANALYSIS Task 2: SPOILT MILK Task 3: DESIGN A NUMERAL LANGUAGE Task 4: CIRCLES & FRACTIONS Task 5: CUTTING THE CHEESE	1,3,4	2,4	Students present their work in a folio up to 6 A4 pages in length. They may select evidence to present in their folios from across the range of tasks they complete to create their folio.
Skills and Applications Tasks Weighting 50%	MEASUREMENT: Students apply various measuring skills to a range of contextualized applications. This assignment has FOUR tasks: Task 1: LINEAR MEASUREMENT Task 2: MEASURING CUBOIDS Task 3: MEASURING SPHERES, CONES AND CYLINDERS Task 4: MEASURING ENERGY RATIO & SCALE IN THE VISUAL ARTS: Students develop their understanding of ratio and scale and ways ratio and scale are used in art and photography. You will progressively develop proficiency in applying mathematical skills and techniques to find solutions to a range of ratio and scale problems. This assignment has four sections:	2,3,4	3	Students complete each of the 4 sections of the Measurement booklet as they feel confident to attempt the tasks. Students receive appropriate teaching and engage in practice learning activities. Students complete each of the 4 sections of the Ratio & Scale booklet as they feel
30 /0	 Section 1: RATIOS Section 2: RATIOS & PHOTOGRAPHY Section 3: SCALE Section 4: CREATIVE USE OF SCALE IN THE VISUAL ARTS 	1,2	1,2	confident to attempt the tasks. Students receive appropriate teaching and engage in practice learning activities.

Four assessments. Please refer to the Stage 1 Essential Mathematics subject outline.