

ACTE: Individual/Group Multidimensional Design Rubric

DIRECTIONS

1. Ask the student/group for the **printed portfolio**. Digital or electronic portfolios are not accepted. Allow no more than 5 minutes for project setup and score the printed portfolio during setup.
2. Confirm that the multidimensional design, 3D model, textures, renders, documentation, and production assets are student-created. **AI-generated models or production assets are prohibited**. If suspected or disclosed, pause scoring and refer the entry to ACTE staff.
3. Allow no more than 10 minutes for the project presentation. The student may choose which portion of a larger body of work to show.
4. Judges may ask questions for no more than 5 minutes and are not limited to the topics listed in the rubric.
5. Enter a score for every criterion. Add the /30 portfolio score and /70 project/presentation score for the /100 final score, then initial page 2.

PRINTED PORTFOLIO CHECKLIST			Points
Online Orientation Certificate	0 Certificate is missing.	10 Certificate is printed and placed as page 1 of the portfolio.	
Printed Portfolio	0 No printed portfolio is submitted, or only a digital/electronic portfolio is provided.	10 A complete printed portfolio is submitted at judging. Digital portfolios are not accepted.	
Required Portfolio Sections	0 Required printed portfolio sections are not provided.	10 - Printed portfolio includes these 9 sections: 1. Online Orientation Certificate (first page) 2. Project identification page: student name(s), school, category, level, and region 3. Table of contents 4. Project narrative: purpose, learning, and benefit 5. Software and hardware used 6. Design brief, concept sketches, orthographic views, mood board, dimensions/scale, modeling plan, or other planning evidence 7. Modeling screenshots, wireframes/topology, material/texture development, revisions, renders, exports, or testing evidence 8. Works cited/bibliography and asset/source credits 9. Signed statement that the multidimensional design, model, and included production assets are student-created and contain no AI-generated content or assets	
Judges Printed Portfolio Checklist Score			/30

This section is valued at 30 points total.

MULTIDIMENSIONAL DESIGN PROJECT & ORAL PRESENTATION RUBRIC

Select the score range that best matches the demonstrated level. Enter one numeric score from 0-10 for each criterion.

PROJECT					Points
Concept, Purpose & Design Requirements					
0 No identifiable concept, purpose, or design requirements.	1-3 Purpose is unclear; intended use, audience, or requirements are difficult to identify.	4-6 A basic concept and purpose are evident, but requirements, constraints, or planning are incomplete.	7-9 Clear, engaging concept meets defined requirements with purposeful design decisions.	10 Compelling, original concept demonstrates exceptional purpose, planning, feasibility, and attention to requirements.	
PROJECT					Points
3D Modeling, Form & Proportion					
0 No three-dimensional model or form can be evaluated.	1-3 Forms are incomplete or inaccurate; scale, proportion, or spatial relationships interfere with the design.	4-6 Model communicates the basic form, but proportion, scale, detail, or refinement is uneven.	7-9 Well-developed form with accurate proportion, scale, detail, and effective spatial relationships.	10 Professional 3D form demonstrates exceptional proportion, precision, complexity, refinement, and visual coherence.	
PROJECT					Points
Technical Construction, Topology & Accuracy					
0 Technical construction cannot be evaluated.	1-3 Geometry, topology, joins, measurements, or organization create major technical problems.	4-6 Model is functional, but topology, accuracy, organization, or construction includes noticeable issues.	7-9 Clean construction, accurate dimensions, organized geometry, and effective topology support the design.	10 Production-ready model demonstrates expert topology, precision, efficiency, organization, and technical integrity.	
PROJECT					Points
Materials, Textures, Lighting & Final Presentation					
0 Materials, textures, lighting, or final presentation cannot be evaluated.	1-3 Surface treatment, lighting, rendering, or output quality distract from the design.	4-6 Presentation supports the model, but materials, textures, lighting, composition, or finish are uneven.	7-9 Cohesive materials, textures, lighting, rendering, and presentation clearly communicate the design.	10 Exceptional surface detail, lighting, rendering, composition, and output create a polished professional presentation.	
PROJECT					Points
Originality, Purpose & Student Authorship					
0 Purpose or student authorship cannot be established.	1-3 Work shows limited original decision-making; sources or modeling process are unclear.	4-6 Purpose and student contribution are evident, though creative choices or documentation are basic.	7-9 Original, purposeful work with clear student ownership and well-supported process evidence.	10 Distinctive creative vision, meaningful purpose, and convincing evidence of independent student authorship.	
PRESENTATION					Points
Explanation of Process & Professional Delivery					
0 Does not explain or demonstrate the design process.	1-3 Explanation is difficult to follow; limited preparation or understanding of the workflow.	4-6 Explains major steps and tools, but detail, organization, or delivery is inconsistent.	7-9 Clearly explains planning, modeling, materials, revisions, rendering, and design choices professionally.	10 Confident, concise demonstration shows command of the complete multidimensional-design workflow.	
QUESTIONS					Points
Knowledge, Problem-Solving & Responses					
0 Does not answer judges' questions.	1-3 Answers are incomplete or show little understanding of software, modeling tools, or design decisions.	4-6 Answers most questions and describes basic challenges or revisions.	7-9 Provides specific, accurate responses about modeling, topology, materials, rendering, sources, and revisions.	10 Insightful responses demonstrate deep technical understanding, reflection, and equal group contribution.	

AI-GENERATED MULTIDIMENSIONAL CONTENT PROHIBITED: Entries may not contain generative-AI-created models, meshes, geometry, textures, materials, renders, code, documentation, or other production assets. Judges should not independently penalize suspected use; pause scoring and refer the entry to ACTE staff for review.

Judges Printed Portfolio Checklist Score	/30
Multidimensional Design Project & Oral Presentation Score	/70
Total Project Score	/100
Ranking (ACTE Staff Only)	

Judges Initials: _____