**Unit 3: Building a Polygon Nation Project Rubric**

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| **Part 1: Creating Your Nation** | **Criteria for Poster** | **Points** |
| Your Nation Name | * Your nation’s name should be the title of your poster | **5** |
| Your Government Building | * Name of your building ending in “–gon” * Number of sides on your building | **5** |
| Geometry of your building | * The sum of the interior angle measures of your government polygon * The sum of the exterior angle measures | **10** |
| **Part 2: Orienting Your Building** |  |  |
| Symmetry of Your Building | * Number of lines of reflection that will carry your building onto itself * Order of rotation and degree of rotation that will carry your building onto itself | **10** |
| Direction of Your Building | * Direction that your building will face (N,S,E,W) and why * Number of degrees and number of rotations that your building must rotate to face that direction and carry onto itself | **15** |
| **Part 3: Your Nation’s Flag** |  |  |
| Flag Appearance | * Should be creative and colorful * Indicate which special quadrilateral you have | **5** |
| Flag Properties | * Should illustrate any properties of your special quadrilateral given by the conjectures * Properties should be clearly labeled | **10** |
| Flag Proof | * Can be in flowchart or paragraph form * Must be complete | **15** |
| **Part 4: Your Nation’s Attraction** |  |  |
| Design of some feature/landmark | * Must be made of trapezoids/triangles * See class examples: could be a museum, park, theatre, room in your government building, etc. * Poster must include a sketch of this design | **10** |
| Solution to Problem Involving Midsegments | * A written solution to a problem your team wrote involving your design * See class examples | **15** |
|  | **Total Points Possible** | **100** |