**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** |