



Conics Checklist

Achievement

I can:

- Identify the type of conic section (ellipse, parabola, hyperbola) that models a given real-world situation
- Write the equation of a conic section using provided information
- Verify if a conic section model meets specified criteria

Merit

I can

- Integrate multiple conic section models to solve a problem
- Analyze how the parameters of a conic section equation relate to the real-world context
- Communicate mathematical reasoning connecting the conic section model to the problem solution

Excellence

I can:

- Adapt conic section models as needed to fully satisfy all given specifications
- Develop a multi-step strategy to investigate a complex problem involving conic sections
- Provide a detailed chain of logic explaining how the conic section models and calculations lead to the problem solution
- Communicate mathematical insights about the relationships between the conic section properties and the real-world context