

Navigator Schools

Action Step: CASE

Why	Holding students accountable to showing their work, or DEMONSTRATING & DEFENDING THEIR CLAIMS (D&D), ensures that you know exactly what your next steps will be to meet the needs of the group. D&D strategies, such as CASE, give students tools and processes that help them not just think critically but to be academic scholars who can organize a clear defense of their thinking. Something they will use for their entire lives.
Action Step	What: Students will use the CASE strategy to demonstrate and defend their thinking and be creative mathematical problem solvers.
Break It Down	How: <ul style="list-style-type: none"><input type="checkbox"/> During Intellectual Prep:<ul style="list-style-type: none"><input type="checkbox"/> Create teacher exemplars for CFUs and quizzes using CASE<input type="checkbox"/> To promote full inclusion, Identify students who may need accommodations or modifications such as partial CASE, use of manipulatives instead of drawing it, or modified problems (consult with special ed staff)<input type="checkbox"/> Explicitly teach CASE to the class & why proving conceptual knowledge of mathematical concepts through modeling is so important for scholars in primary, secondary and in college<input type="checkbox"/> Ensure that students can apply all parts of CASE to grade level standards questions<input type="checkbox"/> Allow students to practice CASE in both discussions and in their written responses<input type="checkbox"/> Have CASE posted for student reference in the classroom

<p>Teacher Stems</p>	<p><u>Read & Chunk</u></p> <ul style="list-style-type: none"> • Visualize the problem as you listen/read (make a movie) • Identify important chunks of important you can draw. • What do we know? What are we trying to figure out? • Is this chunk telling us something? What is it telling us?Is this chunk asking us something? What is it asking us to do? <p><u>Annotate a Model</u></p> <ul style="list-style-type: none"> • Can we represent this with a model? • What can you visualize and draw to help you solve the CASE? • What did you read (hear) that you could draw? • How can you annotate/label your model to help us understand your thinking? <p><u>Solve</u></p> <ul style="list-style-type: none"> • What strategies did you [will you] use to solve the problem? • Now you may use your annotated model to solve the the problem. • What operation did you use to solve and why? • What equation can we write? • Can we write a number sentence to match our model? <p><u>Explain</u></p> <ul style="list-style-type: none"> • Can you explain/defend your CASE to your partner? • Can you explain to the group how you solved the CASE? • Please write a brief explanation.
<p>Learning Resources</p>	<ul style="list-style-type: none"> • CASE PD • CASE video • DDD CASE Practice Problems • CASE Quick Reference (can print as posters)