

**Figure 3.3** Responses to Cognitive Challenges

CHALLENGE	INDICATORS	POTENTIAL ACTIONS
1. Mental mindset	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Explain the value and importance of the learning (relevance).</li> <li>• Increase students' ownership of their learning.</li> <li>• Teach habits of minds and mindsets.</li> <li>•</li> <li>•</li> </ul>
2. Metacognition and self-regulation	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Create reflection assignments.</li> <li>• Teach students about planning, monitoring, and adjusting their learning.</li> <li>• Use practice tests.</li> <li>•</li> <li>•</li> </ul>
3. Fear and mistrust	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Focus on trust between teachers and students.</li> <li>• Restructure feedback to ensure that students experience it as growth-producing.</li> <li>• Create a safe climate for learning and making mistakes.</li> <li>•</li> <li>•</li> </ul>

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4. Insufficient prior knowledge	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>• Use initial assessments to identify what students already know and what they need to know.</li><li>• Provide lesson background knowledge and key vocabulary in advance, perhaps through interactive videos.</li><li>• Identify what students need to know versus what would be neat for them to know.</li><li>•</li><li>•</li></ul>
5. Misconceptions	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>• Use advance organizers that allow student misconceptions to surface.</li><li>• Recognize common misconceptions for students at a specific age or in a specific content area.</li><li>• Invite students to justify their responses to that thinking.</li><li>•</li><li>•</li></ul>
6. Ineffective learning strategies	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>• Teach study skills.</li><li>• Model effective strategies with think-alouds.</li><li>• Teach about and use spaced practice.</li></ul>

CHALLENGE	INDICATORS	POTENTIAL ACTIONS
7. Transfer of learning	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Plan appropriate tasks that include near and far transfer.</li> <li>• Model the application of skills and concepts in different contexts.</li> <li>• Tailor feedback to include processing of the task.</li> <li>•</li> <li>•</li> </ul>
8. Constraints of selective attention	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Increase teacher clarity such that students know what they are learning and why.</li> <li>• Use breaks and re-orientation strategies.</li> <li>• Teach students to avoid multi-tasking, especially with media.</li> <li>•</li> <li>•</li> </ul>
9. Constraints of mental effort and working memory	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Organize information and chunk it in ways that are easy to digest.</li> <li>• Use both visual and auditory cues (dual coding).</li> <li>• Use retrieval practice and universal response frequently.</li> <li>•</li> <li>•</li> </ul>

Source: Adapted from Fisher & Frey (2021).

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