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Figure 1.3 How the ISPs Are Situated Within SMPs, SEPs, and TEPs Technology & Science & Engineering Standards for Mathematical Integrated STEM **Engineering Practices** Practice Practices **Practices** (NGSS, 2013) (Roberts et al., 2022) (ITEEA, 2020) (CCSSO, 2010) 1. Asking questions and defining 1. Make sense of problems and Use critical and 2. Creativity problems persevere in solving them creative thinking 4. Critical Thinking 5. Using mathematics and 4. Model with mathematics to seek solutions 5. Optimism computational thinking. 2. Reason abstractly and quantitatively Collaborate and 4. Model with mathematics use appropriate 3. Making & Doing 3. Planning and carrying out 5 Use appropriate tools strategically tools to engage investigations 6. Collaboration 6. Attend to precision in iterative design 4. Analyzing and interpreting data 5. Using mathematics and computational thinking 3. Construct viable arguments Communicate 6. Constructing explanations and critique the reasoning solutions based and designing solutions 7. Communication of others on evidence 7. Engaging in arguments from and data 4. Model with mathematics evidence 8. Obtaining, evaluating, and communicating 4. Model with mathematics 7. Look for and make use of Recognize and 1. Systems Thinking use structures structure 2. Developing and using models 8. Attention to Ethics in real-world 8. Look for and express systems regularity in repeated reasoning