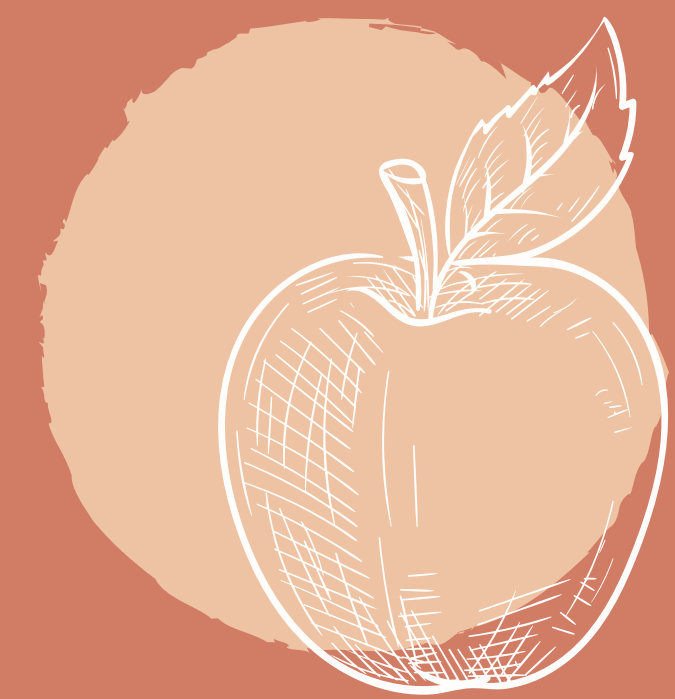


The CoRe of the Problem:

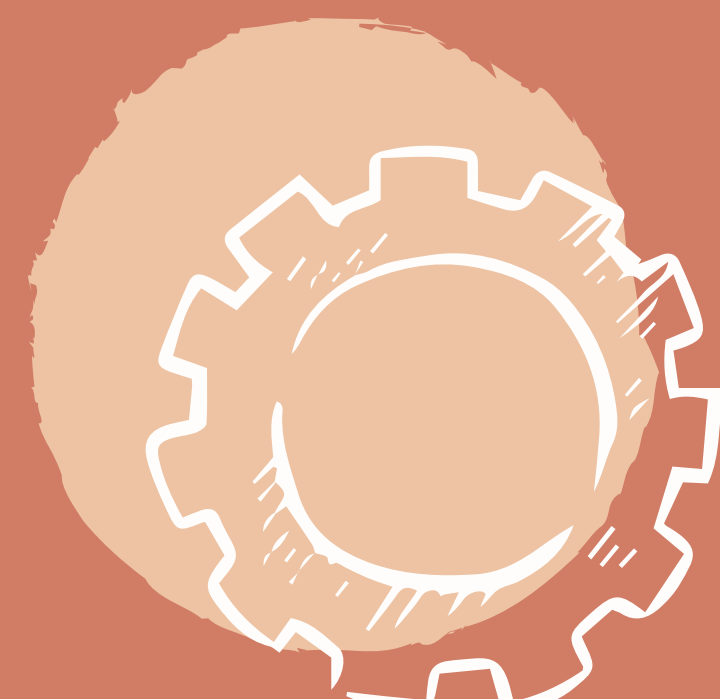
HOW TO HELP PRESERVICE TEACHERS BREAK DOWN CONTENT

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The Problem



Disconnect between preservice teacher planning and practice



Pedagogical Content Knowledge (PCK): Intersection of what preservice teachers know and how they break it down



Inconsistency in lesson planning and awareness of PCK from preservice teachers

The CoRe

	<u>Important Concept 1</u>
What do you intend the students to learn about this idea?	Core as a tool How to use the CoRe for planning
Why is it important for students to know this?	Able to structure lessons for students' conceptual understanding
What else do you know about this idea (that you do not intend the students to know yet)?	How the CoRe has been used for research
Difficulties or limitations connected with teaching this idea.	Unfamiliar, new way to think about planning
Knowledge about students' thinking which influenced your teaching of this idea.	These are great teachers!
Other factors that influence your teaching of this idea.	We are implementing in AgEd at OSU
Teaching procedures (and particular reasons for using these to engage with this idea.	Modeling and time for practice. - Adult learning theory
Specific ways of ascertaining students' understanding or confusion around this idea.	Questioning Observation of practice

Figure 1. Content representation template example. Reprinted from Science teachers' PCK: Understanding sophisticated practice by R. Cooper, J. J. Loughran, & A. K. Berry, 2015, Re-examining pedagogical content knowledge in science education, 60-74.

The Solution

INTRODUCE THE CORE TEMPLATE TO PRESERVICE TEACHERS

- At Oregon State we introduced the CoRe template to preservice teachers as a tool to help prepare for a microteaching experience.

USE MULTIPLE TIMES

- One time was not sufficient for preservice teachers to fully understand or adopt when planning lessons.
- We utilized the CoRe template again during a student teaching seminar based around a scenario. Preservice teachers worked together to complete the CoRe template and debriefed with instructors.

PRESERVICE TEACHER FEEDBACK

- For a few individuals, the template took guidance and time to implement.
- Another group began utilizing the template during student teaching to help see the bigger picture of curriculum.

Content Representation

The Content Representation template began as a data collection tool to collect information on science teachers' PCK and illuminate teachers' thinking about content.

The template includes three columns which focus on three important concepts for the lesson with prompts for each key idea.

The CoRe template is now utilized in professional development and to assist teachers with curriculum and lesson planning.



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