

# Setting Goals and Selecting Tasks

- 1 Peg Smith: Setting a goal is the first step before engaging in the five practices  
2 because you have to be clear about what it is you want students to learn as  
3 a result of engaging in the lesson. If you don't know where you're going,  
4 you're gonna end up someplace else, and often times, goals are stated in  
5 terms of what students are gonna do, not in terms of what students are  
6 gonna learn.  
7 And while knowing what they're gonna do is certainly important, it's the  
8 what they're going to learn that serves as the driver for the questions that  
9 you ask throughout the lesson.
- 10 Miss Stastny: So my main goal is for the kids to understand that two equal fractions have  
11 the same amount of area taken up in the size.
- 12 Victoria Bill: So equivalent fractions.
- 13 Miss Stastny: So equivalent fractions, yeah. We're also going to talk about fractions  
14 equal to one whole. So if I have two halves, the numerator and the  
15 denominator, all my pieces are being used so equal to one whole as well as  
16 the basics of the fractions. What is the numerator? What's the  
17 denominator? How is it partitioned?
- 18 Victoria Bill: So you still some students in the room that are at the level of  
19 understanding just a fraction.
- 20 Miss Stastny: Yeah.
- 21
- 22 Peg Smith: Once you set a goal for instruction, you need to find a task that aligns with  
23 it. That is, a task that actually has the potential to accomplish what you've  
24 said you want to do during the lesson.  
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- 26 Tasks that lend themselves best to discussions are tasks that we would  
27 consider to be high level, or what we've also referred to as cognitively  
28 demanding, and what I mean by that are tasks for which there is no  
29 specified pathway as to how you would solve it. So that students actually  
30 have to think, reason, and make sense of the situation.  
31 Also, it's really important to pick a task for which there is a low floor, so  
32 that students can enter the task, and a high ceiling so that there's the  
33 potential to really accomplish something that's mathematically important.  
34
- 35 So if you end up with a mismatch, Or you may end up with a high level  
36 task, but you're going after very low level goals where you're focusing on

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37 what students are gonna do, not on what you're gonna learn. So in the  
38 ideal, when you're having a discussion, you want a learning goal that  
39 explicitly talks about what students are gonna learn, and a task that is high  
40 level, that has the potential to get you there.  
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42 Victoria Bill: Tell us, what's the task that you're doing today?

43 Miss Stastny: So it's called the Lasagna Task.

44 Victoria Bill: OK.

45 Victoria Bill: There will be two people that are each having an equal portion of lasagna,  
46 but one's having two pieces and one's having four pieces.  
47

48 So the kids have to figure out what fractions each of them are eating with  
49 the same size pan of lasagnas. So they're going to have to be able to draw  
50 it, shade it, write the fraction, and explain how they are equivalent.

51 So most of my students have the basic understandings and we've looked at  
52 equivalent fractions before, but we haven't done them like this where  
53 they're given the amount of pieces and they have to figure out how to  
54 make an equivalent fraction with that.  
55

56 There's a lot of problem solving in this one. But everybody can enter into  
57 it somehow.