Figure 5.1  
Investigating Together: Uncovering Math Structure

- Teacher provides an investigation topic  
  [before class, during class]

- Students investigate  
  [on their own before class, in small groups in class]

- Teacher introduces the topic: “What did you find out?”  
  [at the start of class, after group work in class]

- Students share individual or group discoveries  
  [conjectures, hypotheses, ways to approach, difficulties they had]

- Teacher draws these ideas out, gets group to expand on them, uses their ideas to connect to existing knowledge [math structure]

- Teacher [sometimes students] synthesizes discoveries regarding the course content