

## TEACHER PROMPTS

- PROVIDE ::code snippets or comments you definitely want to provide
- STUDENT-PROMPT :: a specifically-worded question you want to ask, or a general solicitation for input, etc
- MUST-ANSWER-Q :: a question that must be resolved, that a majority of your class must understand before moving on
- BIG IDEA :: an introduction of a new topic, a connection to prior lesson or discussion for application here in code, etc.
- BEEG REVEAL :: this is gonna blow yer minds...
- DELIBERATE-ERROR :: specific code snippet or a general approach that is a bad fit for the situation, is flat-out wrong, or will lead to a compile- or run-time error, etc.
- FIRSTDRAFT :: code that will work for now, but which you intend to replace later
- REVISION vX :: better versions of firstdraft code...
- Paper Planning::
- Clarifying an Idea::
- Additional Info:

## Code Segment

```
function draw() {  
  background(230)           //PROVIDE  
  strokeWeight(1)  
  stroke("black")  
  text(mouseX + ", " + mouseY, 10, 10)  
  
  noFill()  
  strokeWeight(8)  
  
  stroke("blue")  
  ellipse(80, 200, 100, 100)    //PROVIDE  
  //Must-Answer-Q: Explain what the four numbers represent.  
  stroke("gold")  
  ellipse(140, 250, 100, 100)  
  
  stroke("black")  
  ellipse(195, 200, 100, 100)  
  
  stroke("green")  
  ellipse(255, 250, 100, 100)  
  
  stroke("red")  
  ellipse(310, 200, 100, 100)  
}
```

Paper Planning: Start with a paper where they draw the Olympics logo down first, and identify the coordinates of the center, so that they can easily transfer their writing and planning into code.

Must Answer Q: What does each number inside the ellipse function mean?

Must Answer Q: How do you make an ellipse move to the right? Up or down?

Must Answer Q: What exact point on/in the circle does the x, y coordinates represent? (The top of the circle? The center? etc.)

Exit Ticket: go back to Must Answer Q

Exit Ticket: Given a code of an ellipse (or codes of multiple figures), draw the ellipse on this paper (predict the outcome of the diagram)

Clarifying an Idea Q: When you want to control the color of a circle, do you put it before or after the ellipse function?

Clarifying an Idea: Function setup() runs once. function draw() runs on an infinite loop.

Clarifying an Idea: All the code has to go inside the { }. They are like the slices of bread at the ends of a sandwich.

Deliberate error: Drawing two circles on top of each other and only 1 shows up

Deliberate error: Color function goes after the circle and messes up the first ellipse called.

Big Reveal? (Insight to more logical thinking): Circles in the same row will have the same y value

Big Reveal: Shortcut for circles. if width and height are both 100, you can use a shorthand ellipse(x, y, 100) and just have 3 parameters instead of 4.

Additional Info: createCanvas is needed. The two parameters represent the width and height.

Additional Info: background(230) gives the background color. It can take 0 to 255. What kind of colors can you make for a background?

Additional Info: there are other color commands such as fill() or noStroke();