

### Step-by-Step Instructions

1. Before the lesson begins, create a descriptive concept map which specifies cells' structures and functions in descending order from the largest group of all cells to the smallest structures composing individual cells and identify the functions of those structures.
2. Hand out concept map with blanks to students.
3. Tell students to fill in as many blanks as they can on their own.
4. After students have done this, have a student collect the concept maps so that you can assess what students know about cell structures and functions before beginning lesson.
5. Using an overhead projector or white board provide direct instruction about cell organelles' structure and functions in animal and plant cells using a PowerPoint.
6. Model for the students how to complete the concept map with blanks talking aloud conveying what you are thinking about cell structures and functions as you do this.
7. After you have completed the concept map with blanks, reveal the completed concept map.
8. Then cover the completed concept map.
9. Give the students back their concept maps with blanks encouraging them to correct and complete the concept maps to demonstrate what they have learned.
10. Then have students work in pairs to check their completed concept maps with their peers to check their understanding.
11. Walk around classroom to ensure students have accurate understanding of topic.
12. Students can exit the class turning in a completed concept map.
13. Evaluate what each student has learned using the concept map each student completed.