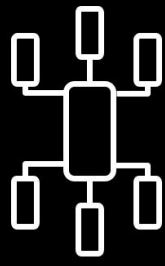


# Metaphor as Conceptual Anchor: Using the Iceberg to Teach Stuttering

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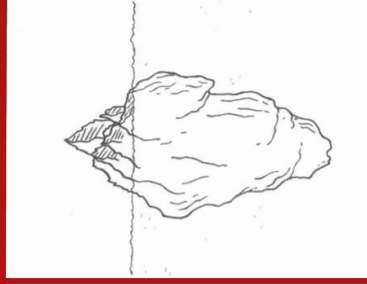
## Graphic Organizers

- Helps students organize their thinking
- Promotes powerful cognitive activities like relational and dual coding (Clark & Paivio, 1991; Crone et al., 2009)
- One pager - specific kind!



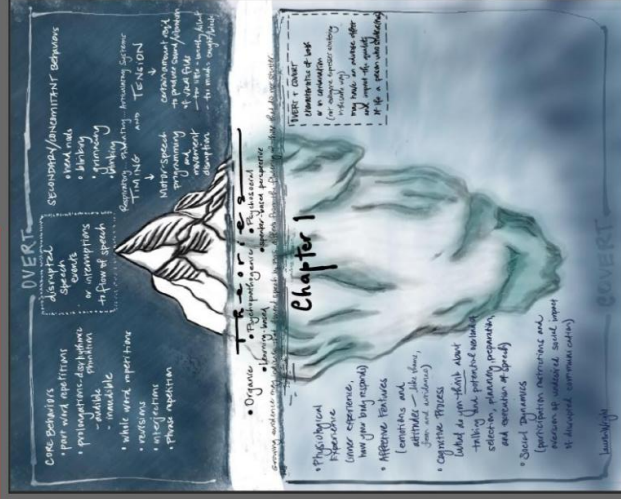
## Extended Application

- Providing an assignment that is low stakes but high value/ impact
- Accept many types of products
- Consistency and predictability = high structure for students
- Engagement with content in meaningful ways



## Graphic Organizer in Action: The Iceberg Metaphor in Stuttering

An entire course is dedicated to Stuttering in the curriculum in the School of Communication Sciences & Disorders, where the metaphor of the **ICEBERG** (Sheehan, 1970) is presented early in the course as a way to conceptualize the multifactorial nature of the condition. **METAPHOR**, in literature, is a key tool for connecting the abstract to the concrete, and for creating an image the reader can hold onto as they engage with the content. A controlling metaphor can serve to unify and organize concepts. Could the metaphor of an **ICEBERG** serve this purpose in this graduate course and facilitate deep learning of content? The answer was ... **YES!**



## Chapter 1 : What is Stuttering?

### REFERENCES:

Clark, J.M. & Paivio, A. (1991). Dual coding theory and education. *Educational Psychology Review*, 3(3), 149-170.  
 Crone, E.A., Wendelken, C., van Leijenhorst, L., Honomichi, R. D., Christoff, K., & Bunge, S.A. (2009). Neurocognitive development of relational reasoning. *Developmental Science*, 12(1), 55-66.  
 Gonzalez, J. & Potash, B. (2019). A simple trick for success with one-pagers. <https://www.cultofpedagogy.com/one-pagers>  
 Sheehan, J. G. (1970). Stuttering: Research and therapy. Harper & Row.



## CHAPTER 4: What are its advanced characteristics?



## Chapters 11 & 12 : Treatment of Stuttering in Adults