



Geometry of Marine Invertebrates  
**Geometry and Breathing Underwater Video Questions**

Watch the video “Breathing Underwater” and answer questions as you go. Questions are in order that they are answered in the video. Please type your answers in the box.

1. What or who is Stretch?

2. What is Stretch’s breathing tube called?

3. According to MacKenna Hainey (in the first few minutes of the video), what does geometry have to do with marine biology?

4. What do marine animals use instead of lungs?

5. How do they get their oxygen?

6. Of the two types of (model) gills MacKenna showed, which type was more efficient at gathering oxygen?

7. Why?

8. How do anemones get oxygen? (hint: do they have gills?)

9. What structure do basket stars use to obtain oxygen?

10. What is hypoxia?

11. What was “The Blob” in the ocean?

12. Why might the geometry of gills be important and related to hypoxia?

13. How would ocean hypoxia affect you or your life?  
(you may need to think about this one a bit)

