

Task I: Imagine a stack of oreos 10 cm high. On unlined paper, carefully draw a net for this shape. Imagine pushing the stack so that it is tilted. Name the new shape: _____
Carefully draw a net for this shape, omitting the bases. Draw a mini version of your net here:

Cut out your actual net and tape it together. Did your net create the desired shape?
If not, what changes would you need to make to improve your net?

Task II: Consider the net for shape O. Use your compass and ruler to draw a net for a cone that is taller than shape O but has the same base. Draw a mini version of your net here:

Cut out your actual net and tape it together. Did your net create the desired shape?
If not, what changes would you need to make to improve your net?

Task III: Note: do not write on the beach ball. Use a piece of tape or some other means to indicate the north pole. Use tape to mark locations for New York City and Istanbul, Turkey. They are both at approximately 41° N latitude. Connect the two cities with the shortest possible piece of string. Imagine the piece of string as part of a circle on the sphere. Describe the circle:

How does the circle just described compare to the equator?