

# ***Sir Cumference: Assessment Information for Teachers***

## Thought Provokers:

- What is the circumference of this cylinder? Can you find the circumference of a cylinder? Students and teacher discuss circumference as a planar measurement.
- "If we trace this circular face of the cylinder are we finding the circumference of the circle or the cylinder?"
- Students create a clay cylinder and use dental floss and rulers to find the circumference of the circular faces. Do the all the circular faces on your cylinder have the same circumference? How do you know?

## Work that student pairs do:

1. Both students create a cone solid with modeling clay.
2. Students estimate the circumference of the circular face on the two cones.
3. Students measure the actual circumference.
4. Students use the dental floss to create a cross section (cut) at the point on the cone where they believe the circular face would have a circumference of 5 cm.
5. Students measure to find the actual circumference of the cross section. Each pair watches the process of measuring used by the other student.
6. Students measure to find the diameter of the circular face using any method they wish.
7. Students find the radius of the circular face using any method they wish.

## Peer Assessment:

- Students complete each of the tasks listed. At the completion of each step each student uses a checklist to assess the behavior and work of his/her partner.