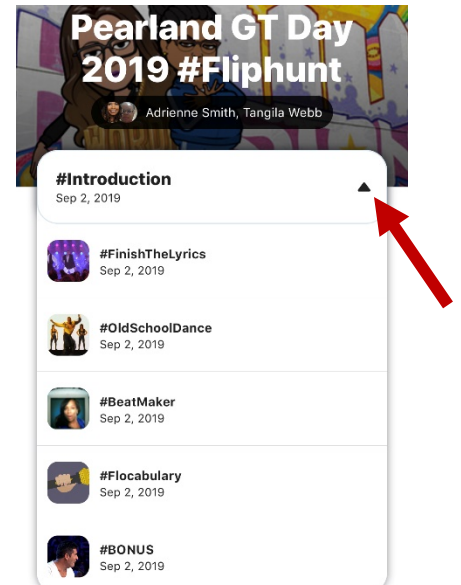


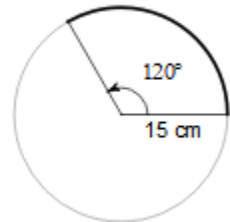
ARC LENGTH & AREA OF A SECTOR

NOTICE: To compete and to receive credit, you must post your videos to the correct topic. To navigate from topic to topic, you must click the triangle pictured to the right, and select a topic.

For Credit:

All team members must appear in the video submission.

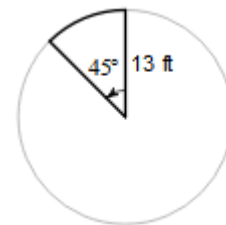


	<u>Mic Drop & Pom Poms</u> Watch the Flocabulary video. Create a video with an original rap song or a cheer about the formulas for circumference and area. You may not duplicate Flocabulary's rap song.
	<u>Caffeinated and Decaffeinated</u> Record a video manipulating a coffee filter to show the difference between arc length and area of a sector. You must verbally explain while demonstrating with the coffee filter.
	<u>International Math</u> Find the length of the arc. Make a video explaining the steps using an accent. 
	<u>Teach Me</u> Find the length of the arc. Make a video explaining the steps acting as a teacher teaching students. Select the group member who will be the teacher. The teacher must ask each student (the other group members) questions about the problem and every student must answer. $r = 9 \text{ km}, \theta = 135^\circ$

Happy Birthday

Find the area of the sector.

Make a video explaining the steps to the tune of Happy Birthday.



Show and Tell

Find the area of the sector.

$$r = 9 \text{ km}, \theta = 300^\circ$$

Create a video explaining verbally explaining the steps while showing your work to the steps on paper. Each group member **MUST** explain a step.

Pizza Time

Now let's say that you really like stuff crust pizza.

You are not concerned with which option gets you more pizza, but you want more of that tasty cheese filled crust.

A medium has a 12 inch diameter.

A large has a 14 inch diameter.

Both pizzas have 8 slices.

Create a video explaining which option will get your more crust - the medium or the large?

Demonstrate to justify your response. The method of demonstrating is up to the group.

Trunkfit

Skateboarding has become a popular sport. The parks department is thinking of constructing ramps in some of the local playgrounds.

A "half-pipe" ramp is formed by two quarter-circle ramps, each of which is 10 feet high, plus a flat space 20 feet long between the centers.

Create a video finding the distance a skater travels from the top of the ramp to the top of the other. Show your work in the video, and each member must explain.

