

# GEOMETRY LINE SONG SONG/RAP

**Purpose:** Students will demonstrate perpendicular, parallel, intersecting lines, lines, line segments and rays using their bodies.

**Suggested Grade Level:** 3 - 4

**Math SOL:** Geometry 3.15, 4.10

**Equipment/Materials Needed:**

1. Overhead or document camera
2. Song (attached)

**Advance Preparation:**

1. Have a copy of the words on an overhead or document camera for students to read as they sing along.
2. Review and practice the words to the song and the accompanying hand motions (see attached).

**Directions:**

1. Tell students they will be practicing geometric lines by singing a song and doing hand motions. You can sing it to the tune of *Twinkle Twinkle Little Star*.
2. Put the words on the overhead or document camera.
3. Demonstrate the song.
4. Have students join in.
5. Repeat several times until students have had adequate time to practice and learn the song.

**Teaching suggestions:**

1. Be prepared with suggested motions, but you could let the students create their own motions if they would like.

**Modifications/Variations:**

1. You may do this as a rap.

*This lesson was developed by the School Health Initiative Program (SHIP) for the Williamsburg James City County Public Schools (WJCCPS), Williamsburg, VA. SHIP is funded by the Williamsburg Community Health Foundation (WCHF). Parts or all of this lesson can be used and reproduced without permission provided that SHIP, WJCCPS and WCHF are credited.*



Williamsburg Community  
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# Geometry Line Song

To the tune of Twinkle, Twinkle Little Star or just a RAP!

Per-pen-dicular, par-a-llel,  
These are lines we know so well  
In-ter-sect-ing lines they cross  
Know this and you won't be lost  
Lines have no end, rays have one,  
Line segments have two,  
Now you're done.

**An attempt to explain the hand motions....**

## **Perpendicular -**

-one arm parallel to the floor and the other with the elbow on top of the arm to form a perpendicular line. (You may switch elbows that were on top every two syllables - perpen – dicular.)

## **Parallel, these are lines we know so well –**

- both arms 90 degree bend, but straight up and parallel to each other (similar to signaling a “touchdown” in football)  
- you may then alternate the parallel vertical lines to become horizontal parallel lines by placing 90 degree bent arms over each other, horizontally, with approximately a 6 inch gap between them. Keep rotating back and forth during the parallel part of the song .

**Intersecting lines they cross -** Take forearms and make the letter X with them to the beat.

**Know this and you won't be lost-** point out finger and shake it towards the front – you may put a little hip shake in there too.

**Line have no end -** arms outstretched to your sides shoulder high with fingers extending the “line”

## **And rays have one -**

- Keep arms outstretched, but ball up one hand into a fist with the other still extended out – balled fist represents the point or beginning of the ray

**Line segments have two -** Both arms remain stretched out, but both hands are now in a fist to represent the point at each end of the segment.

**Now you're done -** Hands by side.