

FARMER & BEE KEEPER

"EVERY SYSTEM OR OCCUPATION CAN BE TIED BACK TO FARMING OR AGRICULTURE IN SOME WAY."



KAMAL BELL

Pronunciation:
(ka-mall bell)

Life: 1991 - present

Location: Durham, North Carolina

Known for: Owner of Sankofa Farm, Beekeeping, & Community outreach

MATH HERO

Farmers like Kamal use math to:

- Plan out crop spacing with geometry for proper watering and to maximize plant growth.
- Understand how bees use tessellation and hexagon geometry to produce the most honey possible.
- Determine the lifespan of bees.
- Calculate profit which is money earned from selling crops minus the money spent on crop planting and upkeep.

BUZZING ABOUT FARMING & MENTORSHIP

- Kamal Bell is a farmer and beekeeper. He combines his work as a former teacher and his love of nature to teach youth how to help Black communities through growing fruits and vegetables, and raising bees on his family farm named Sankofa. Bees serve a very important role by pollinating the crops people and farm animals eat.
- Kamal grows tomatoes, peppers, kale, fennel, lettuce, celery, turnips, and chard on his farm. He delivers the produce to local grocery stores. Honey from his bee hives is sold on the farm and online.
- Kamal makes data informed decisions that allow him to do his job more efficiently. Running the farm is a business which uses a lot of math and Bluetooth technology.
- Kamal developed a book that teaches kids about farm-related and "bee" math.

REFERENCES

- Be Smart. (2017, August 3). Why Nature Loves Hexagons [Video]. YouTube. https://www.youtube.com/watch?v=Pypd_yKGYpA.
- GrandValleyPDM. (2012, May 1). BeeCloud Beehive Scale [Video]. YouTube. <https://www.youtube.com/watch?v=WLKKazhwXkw>.
- Mediasmith (2018). Sankofa [Video]. Vimeo. https://vimeo.com/296545837?embedded=true&source=vimeo_logo&owner=1051539
- T. McElveen, personal communication, June 23, 2022
- Bell, K. (2022). Kamal Bell [Photograph]. Personal Collection