

**TUFF
PUPIL**

A Hip Hop Series About Global STEM issues
For Kids 7-10



Supported by funding from

Featuring the voices and music of
Kaitlin McGaw & Tommy Soulati Shepherd of



**The
Lawrence
Hall of
Science**



TUFF PUPIL

Taye and Flori are high school students and best friends, and they're also electronic hip hop duo TUFF PUPIL. After school, they make music about the technology and science they encounter in their lives that they think other kids should know about. Each 5min episode demystifies an everyday phenomenon - how your local pizzeria can predict your order, or how online radio seems to always play the song you were dying to hear. TUFF PUPIL introduces STEM topics that are essential to their lives. The stories support youth by raising awareness of key concepts that can become a STEM lifeskills toolbox for elementary students.

TAYE is a 16 year old non-binary African American. They rap and play samples and sound effects with their trusty laptop & drum pad. Taye likes to combine sparkle with street style.

When it comes to science, Taye is a **sensemaker**, always wondering, how does this work? What **evidence** do I need to help me understand what's going on here? And asking questions like, why is this important? How can I **make things work** better? They like to slow down while problem solving, make mental models, and **reason** things out.

Key Content Areas

- Data Science
- Climate Disruption
- Contagion
- Clean energy
- Artificial Intelligence

Created by learning designers at The Lawrence Hall of Science in partnership with scientists and engineers at UC Berkeley and The Lawrence Berkeley National Lab

FLORI is a 16 year old girl who's the other half of the musical duo TUFF PUPIL. She is a white Spanish-speaker, who raps and plays the keyboard, and loves math.

When it comes to science, Flori is a **detective**, investigating **phenomena**, looking for evidence, and solving problems. She asks **questions** like:

What is this? Where did it come from? What's it made of? Flori's always in a **factoid frenzy**, memorizing things like species names and the elements on the periodic table.



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