

Discman

SONY

10 PLAYBACK MODES  
CD COMPACT PLAYER D-121 MEGA BASS





GATORBOTCS

Maker Faire Fall 2013  
Castilleja School:  
FabLab@School

Elaine Poon



Castilleja School  
FabLab@School

Imagine

Castilleja School  
FabLab@School

2013  
Castilleja School  
FabLab@School

Castilleja  
THE SPANISH CLUB

Castilleja School  
FabLab@School

Leonardo's Machines

Leonardo's Machines



# FabLab@School

**Paulo Blikstein**

**Twitter: @pauloblikstein, #fablabatschool**



**Transformative Learning Technologies Lab**

<http://tltl.stanford.edu>

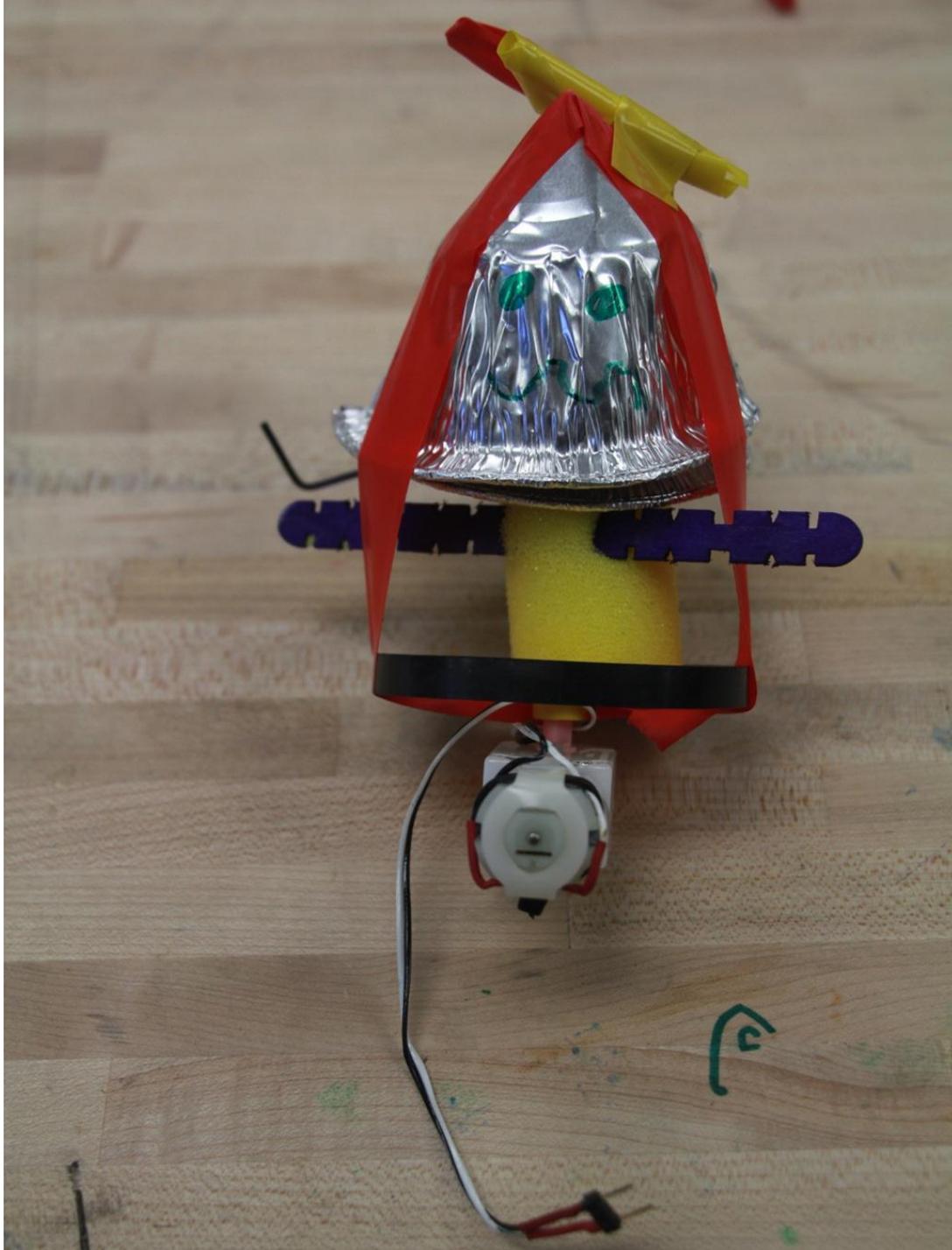
<http://fablabatschool.org>



**STANFORD  
UNIVERSITY**

Alondra

I don't know



Alondra

Alondra

Robot

Head  
body

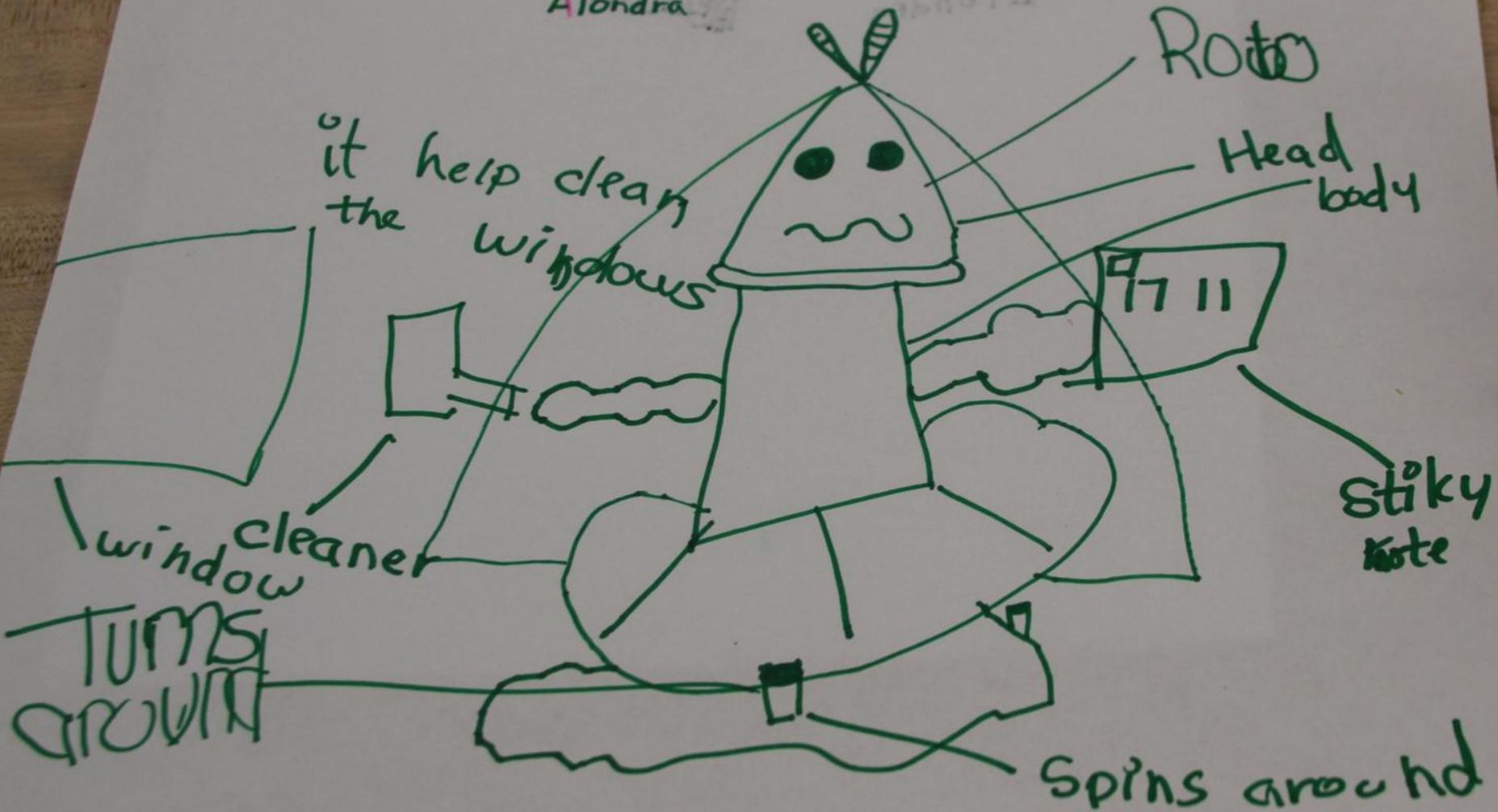
it help clean  
the windows

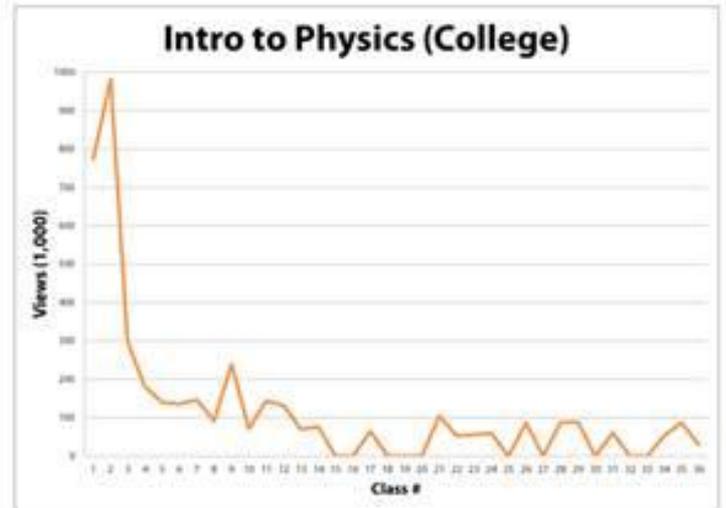
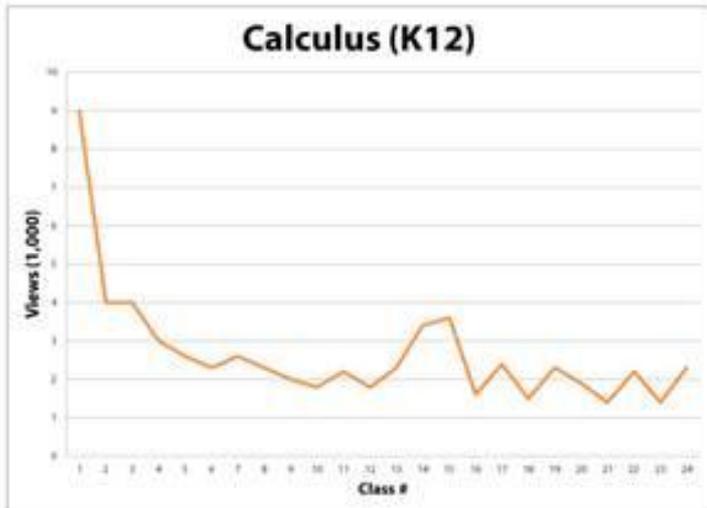
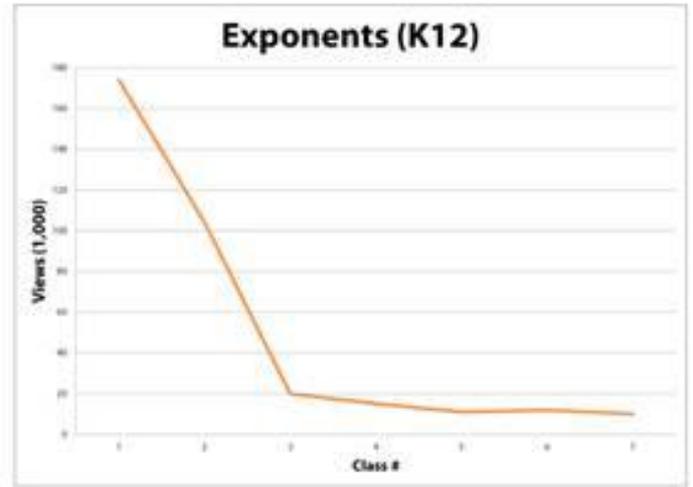
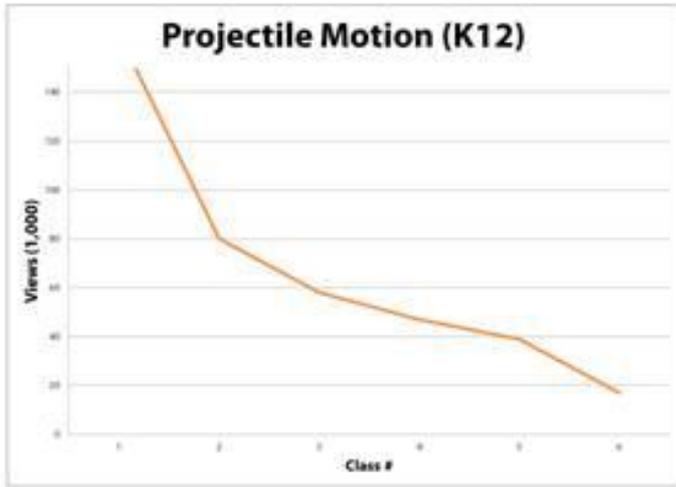
Sticky  
note

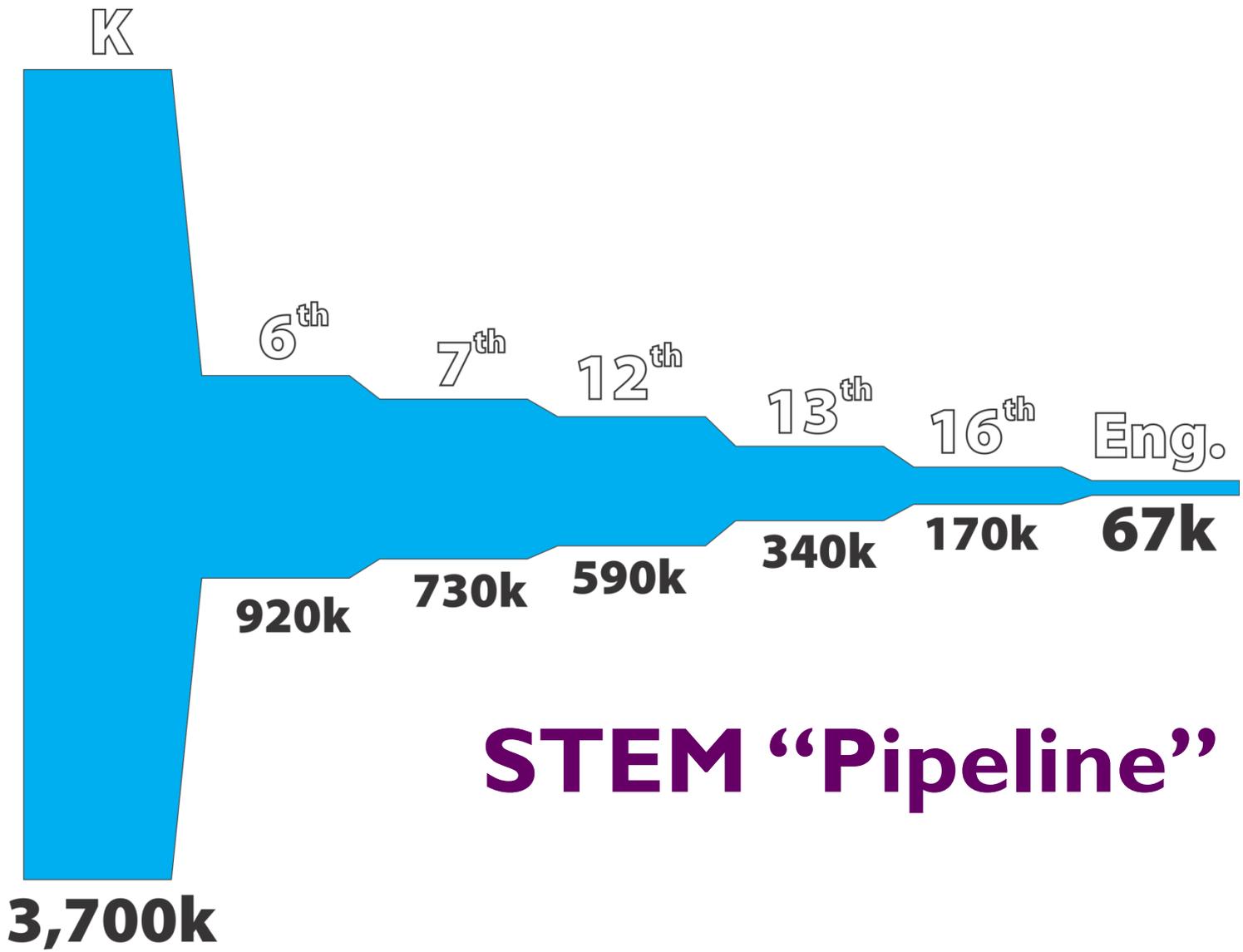
Window  
cleaner

TURNS  
GROWN

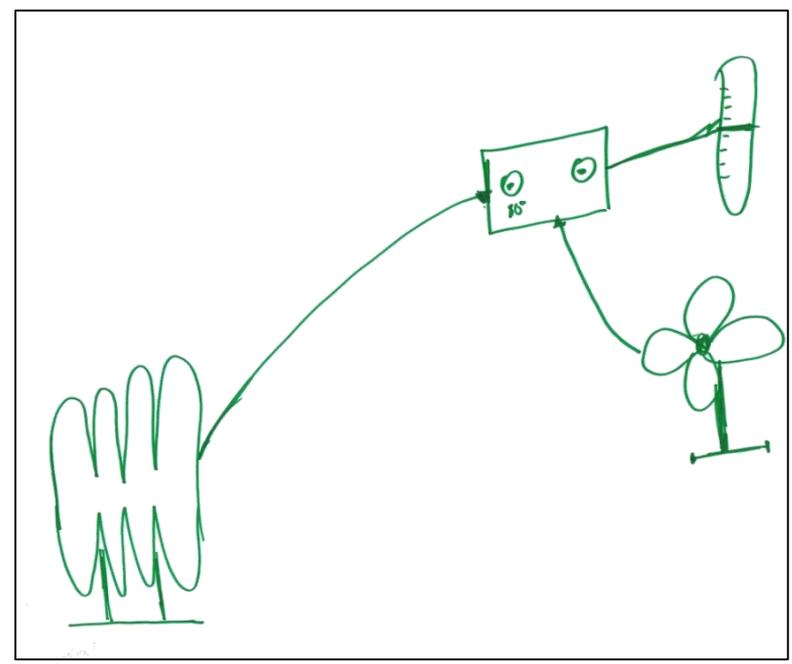
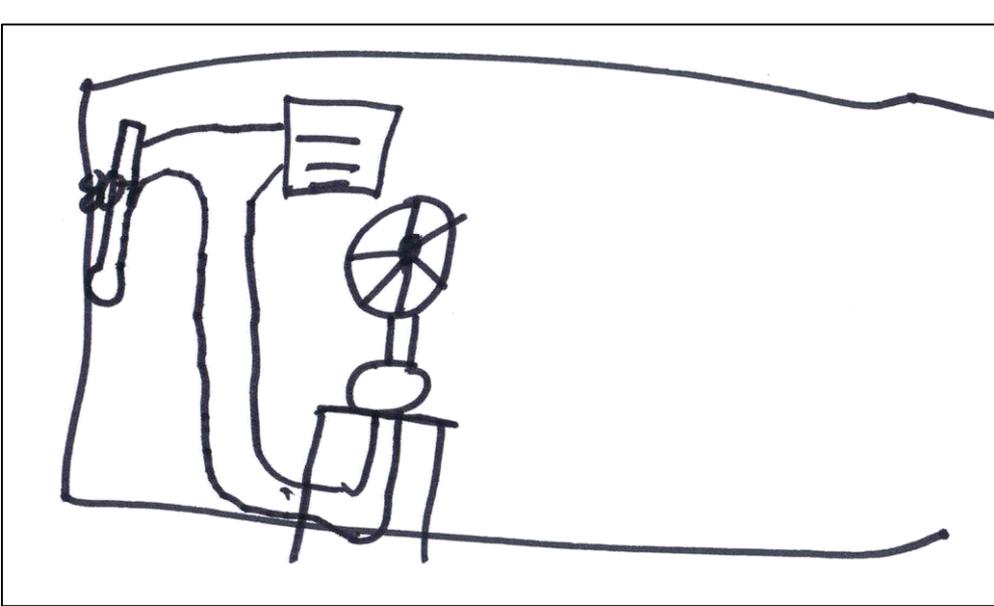
Spins around



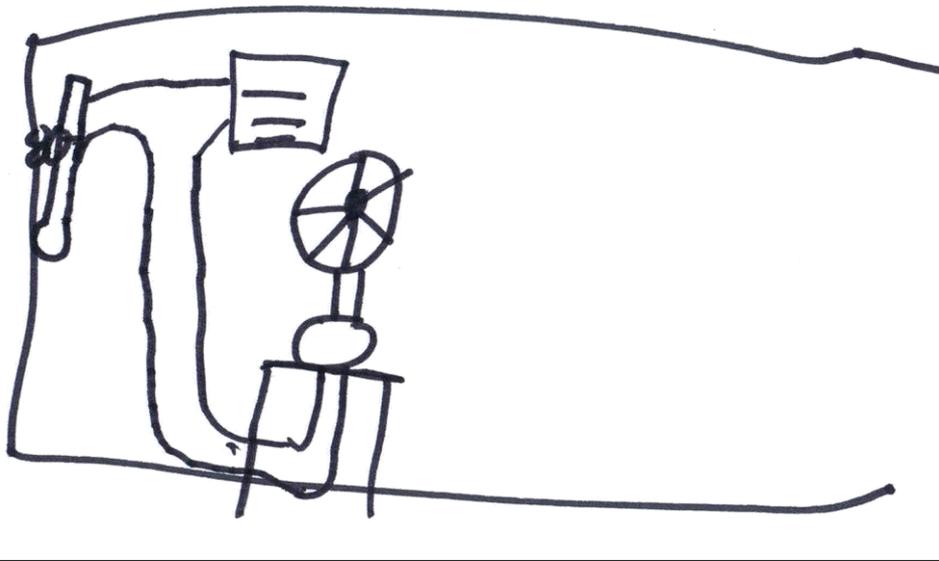




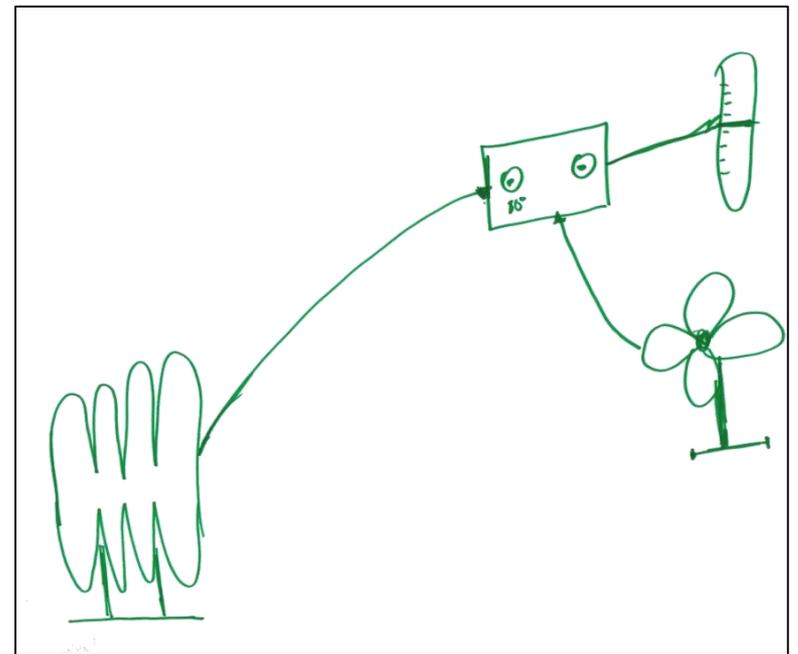
## STEM “Pipeline”



9 year old



Undergraduate at  
an elite university



**Best predictor for STEM career choice:**

**Course taking**

**Performance and grades**

**Interest in science in 8<sup>th</sup> grade**

**Best predictor for STEM career choice:**

**Course taking**

**Performance and grades**

**Interest in science in 8<sup>th</sup> grade**

**(Maltese & Tai, 2011)**



**FabLab@School**





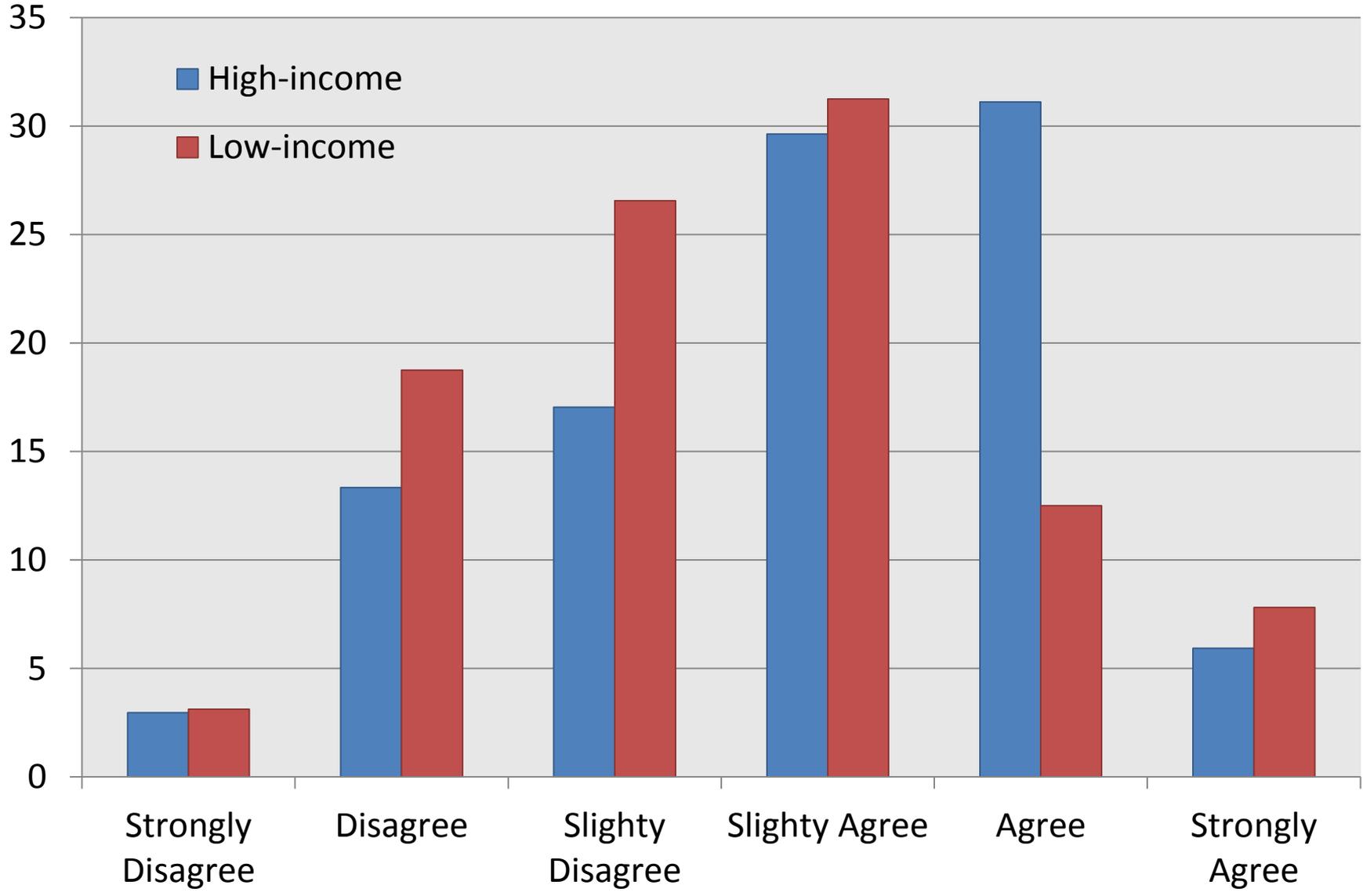
**stanford, moscow, palo alto,  
thailand, (and soon) east palo alto, finland.**

**in conversations with singapore, india  
south korea, brazil**

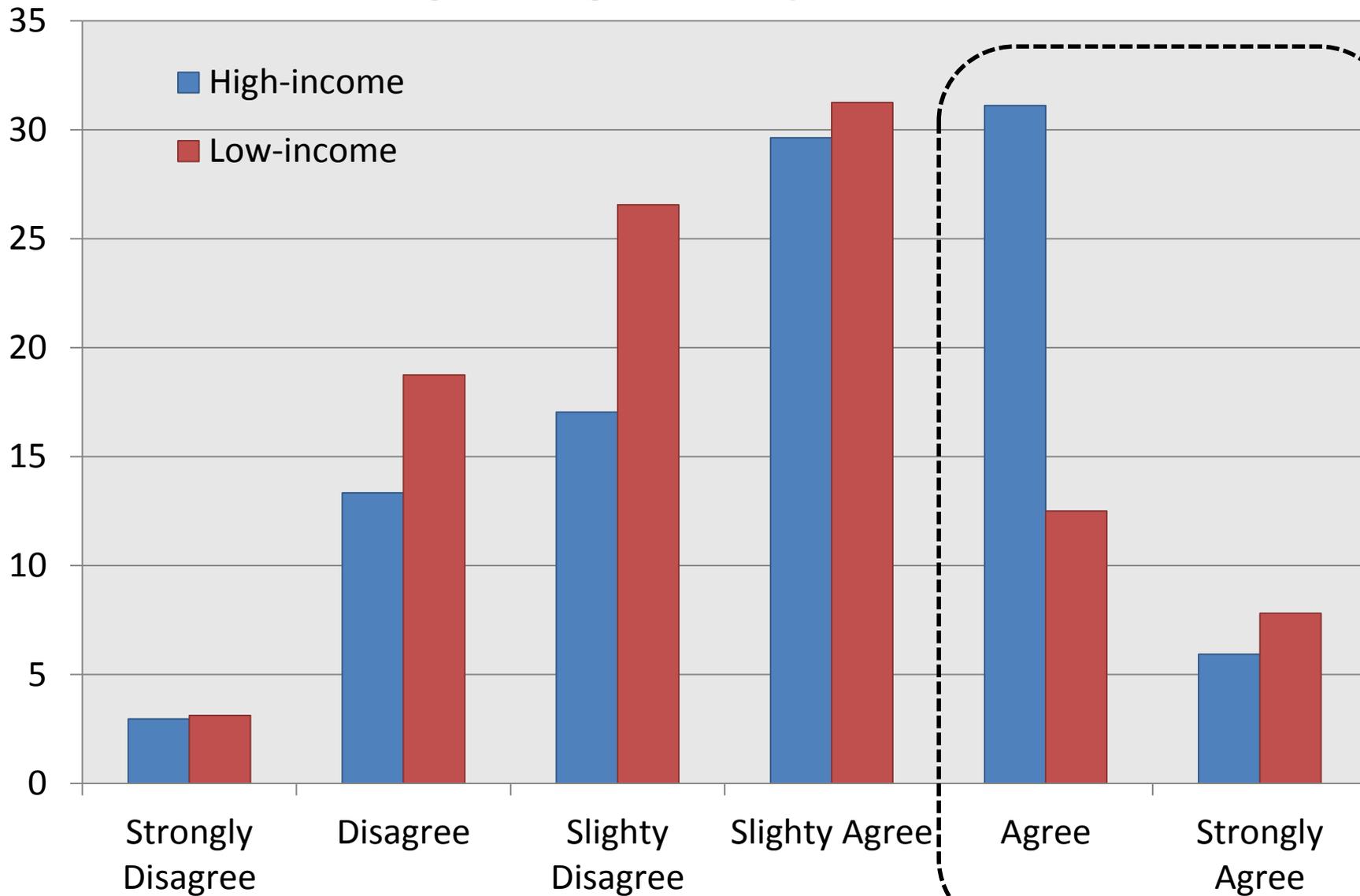




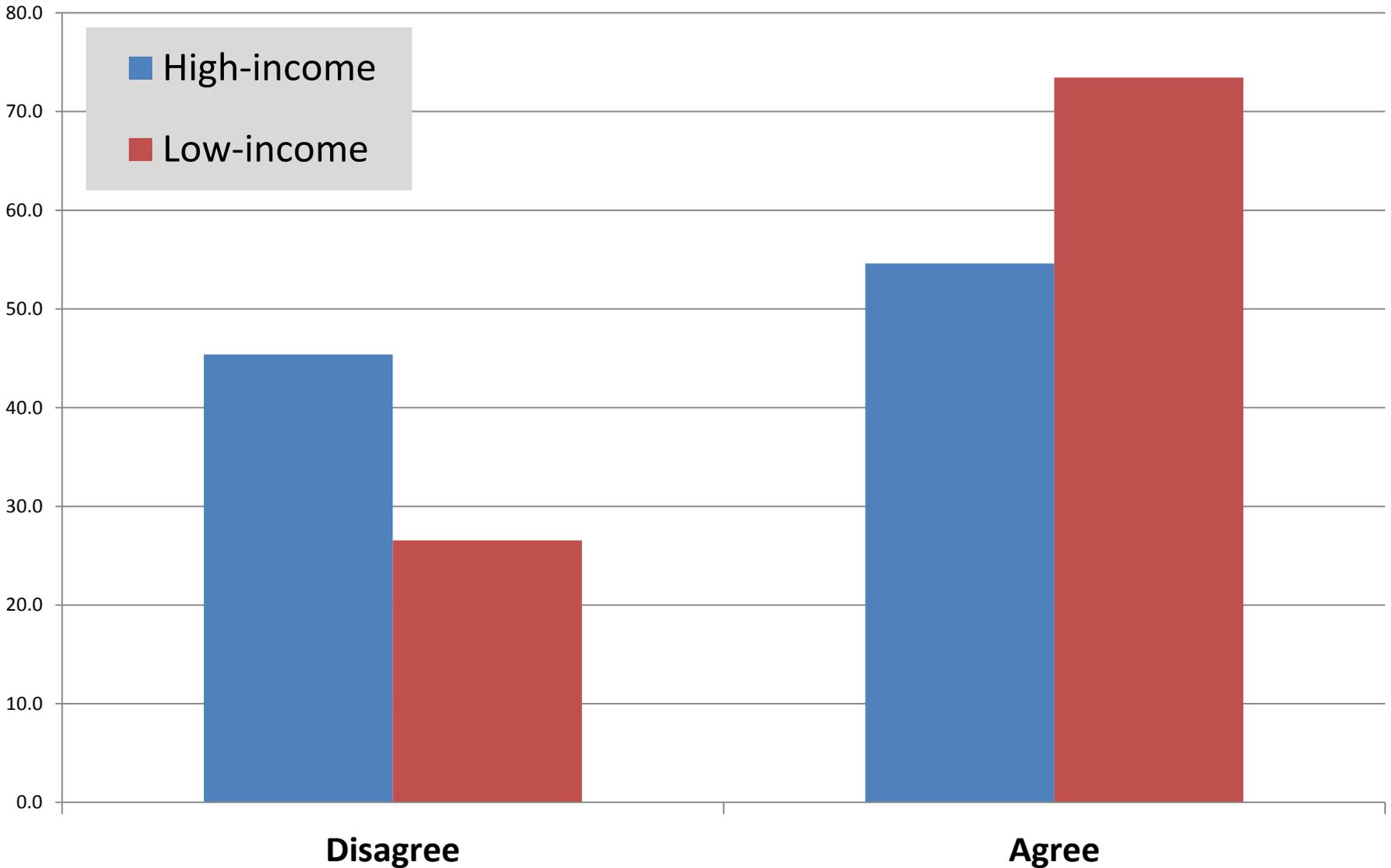
# "Inventing things is important for me"



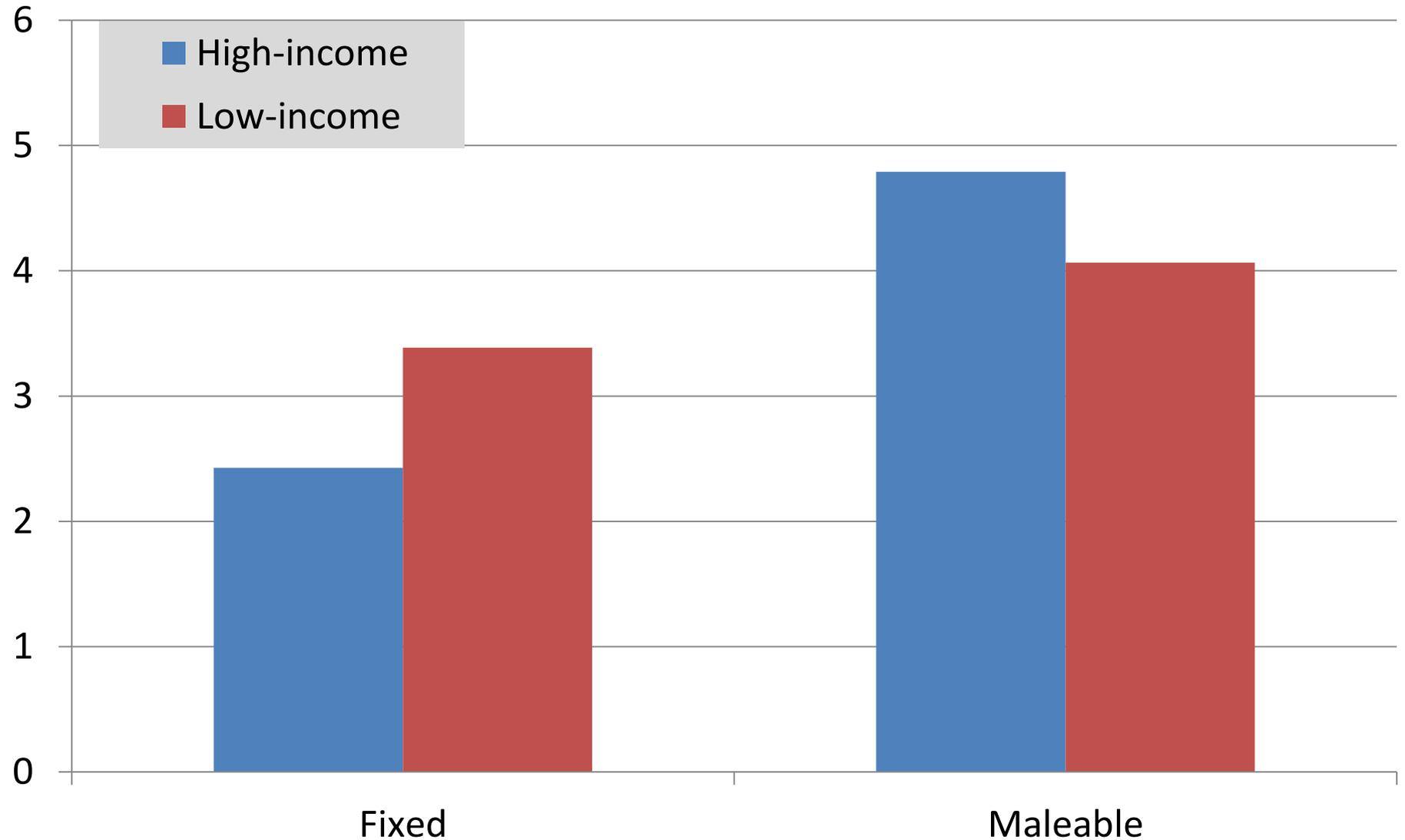
# "Inventing things is important for me"



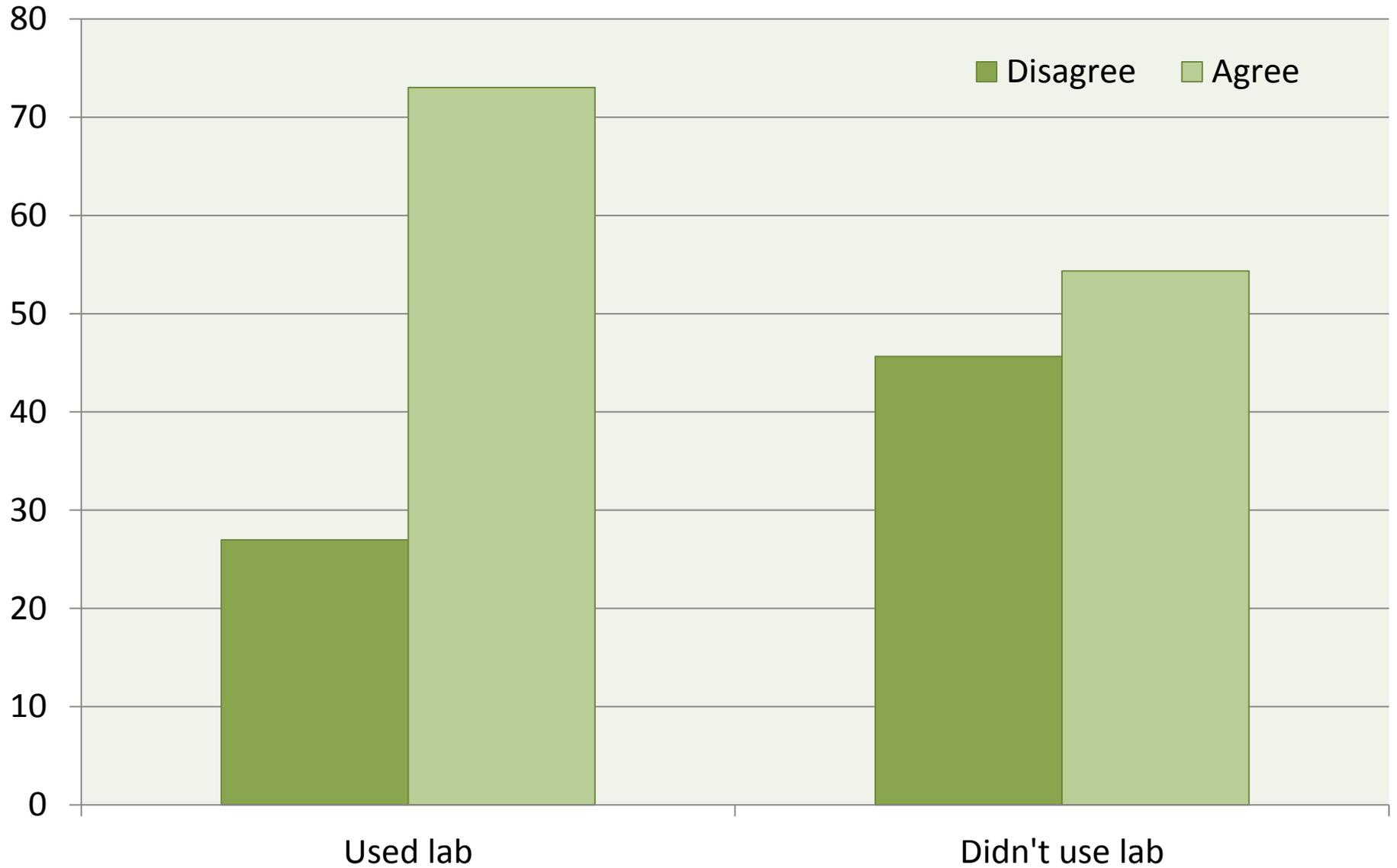
# "When I see something broken, I immediately think of a way to fix it"



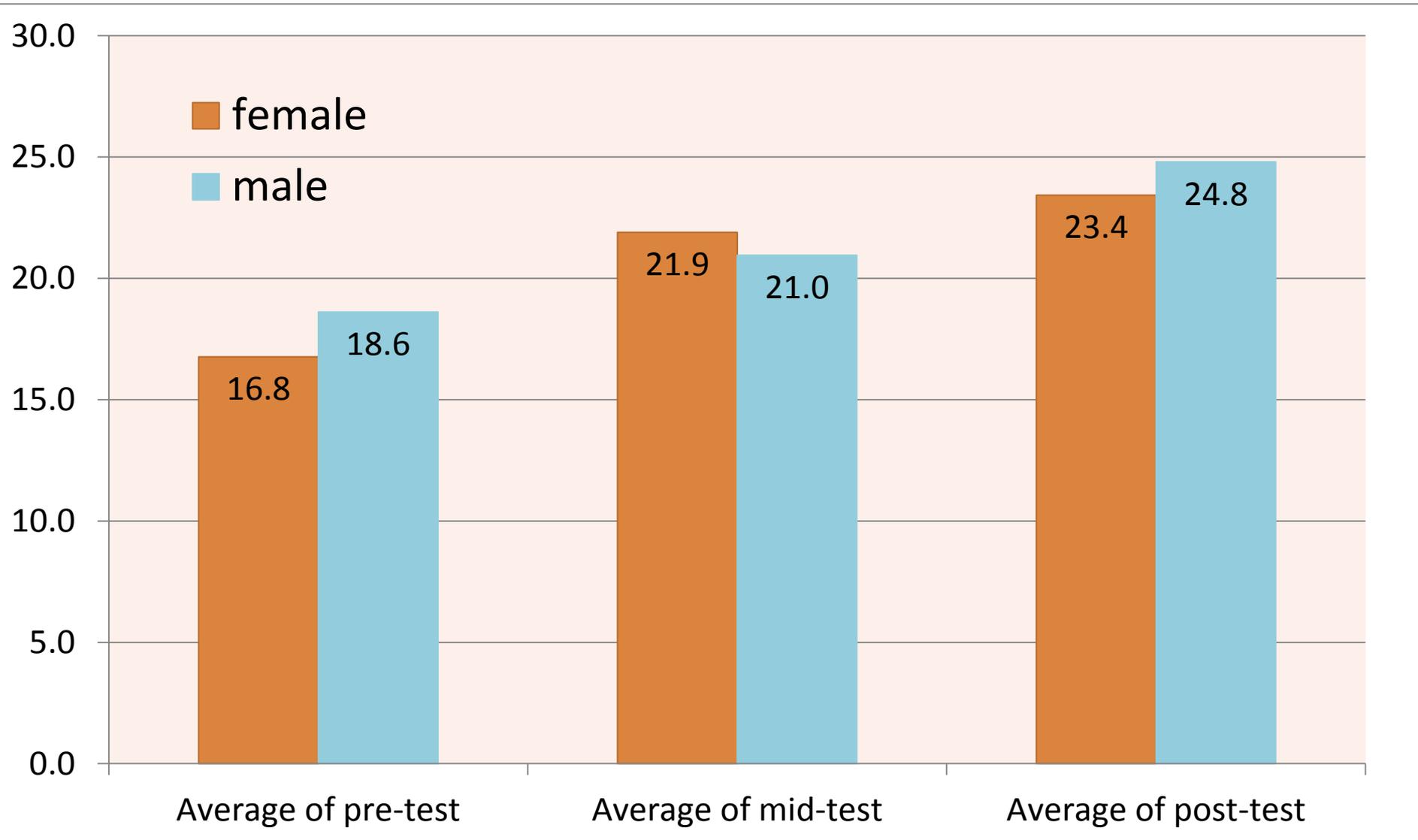
# Intelligence as a fixed vs. maleable entity



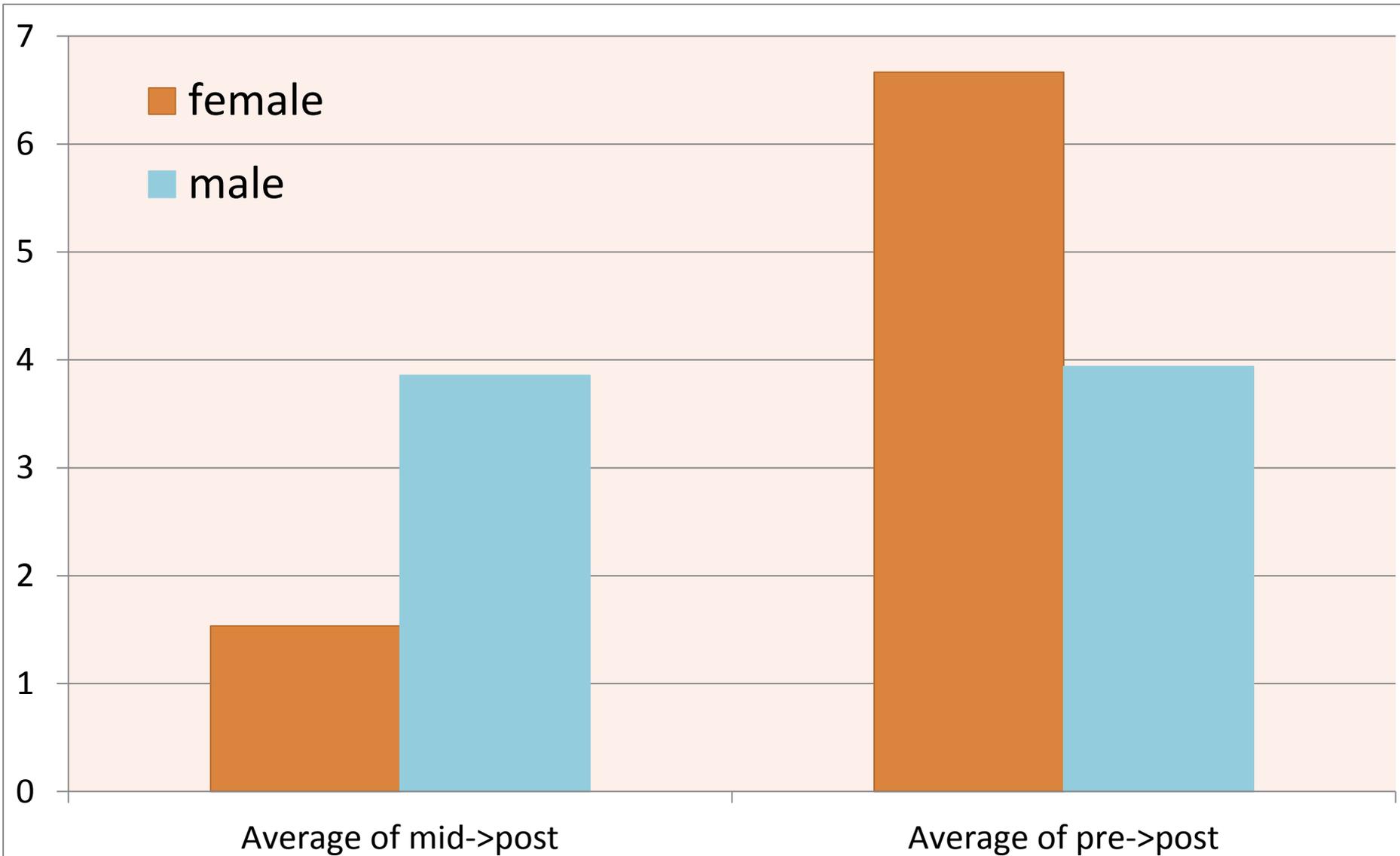
# Inventiveness metric



# Technological Literacy Test



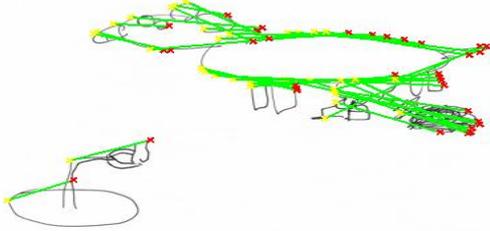
# Technological Literacy Test (improvement)



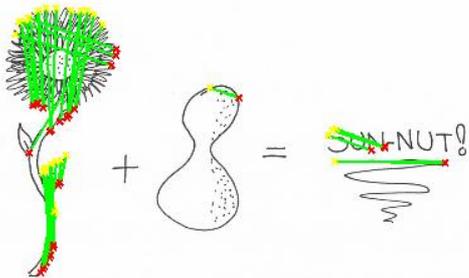
# **Multimodal Learning Analytics:**

**new forms of assessment  
for complex learning**

Wit Kollani



Zaiaic  
Georgina :)



Jeffrey Grazo

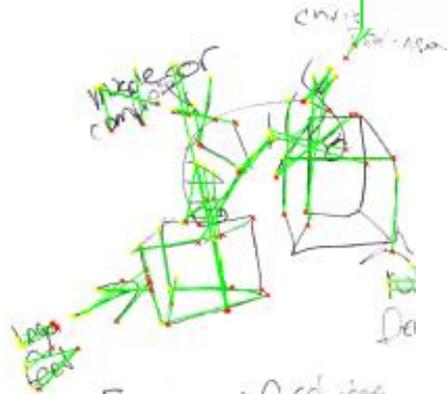
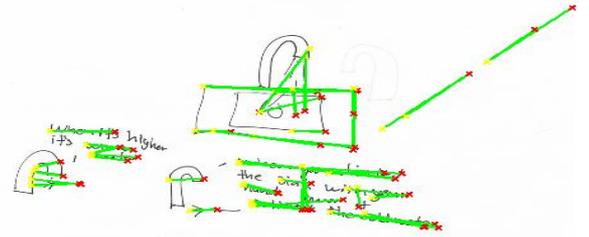
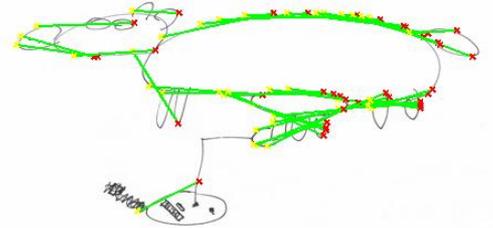
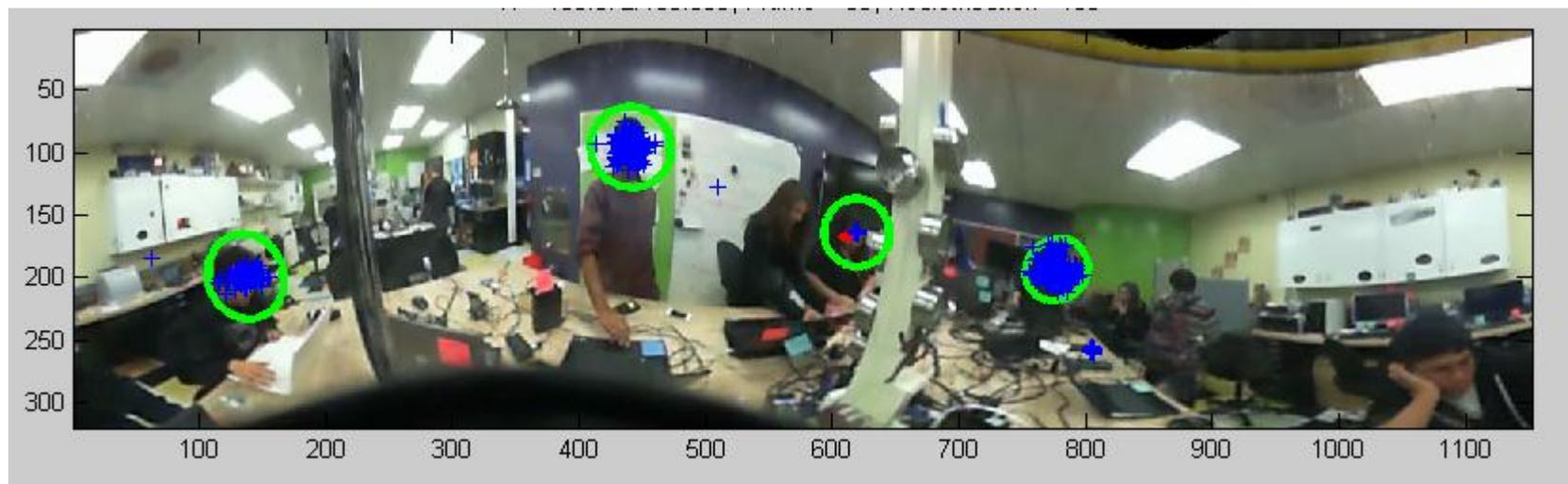
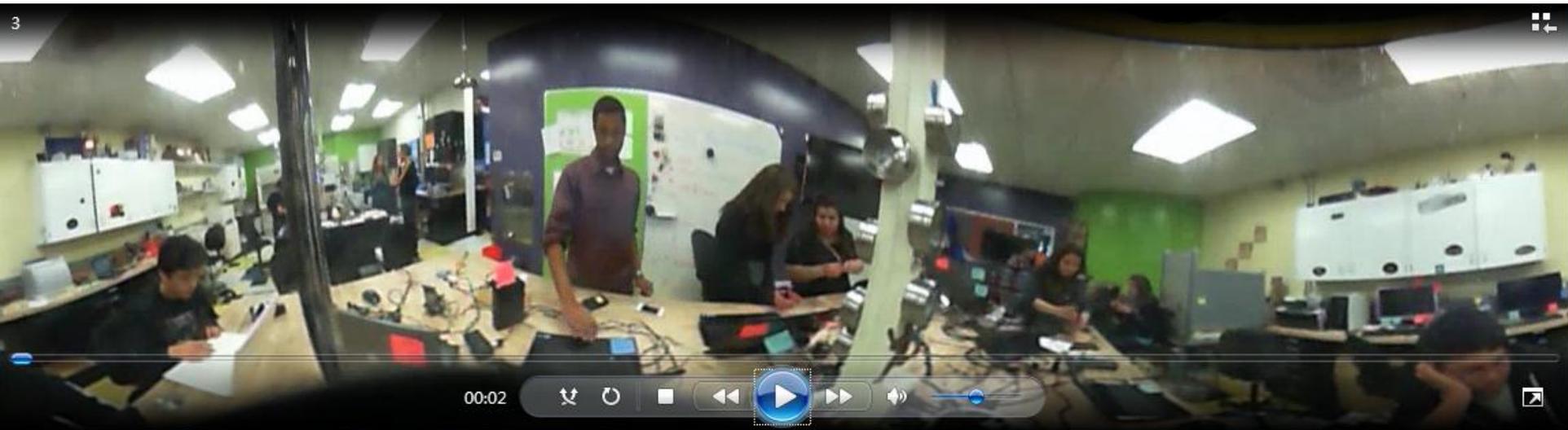
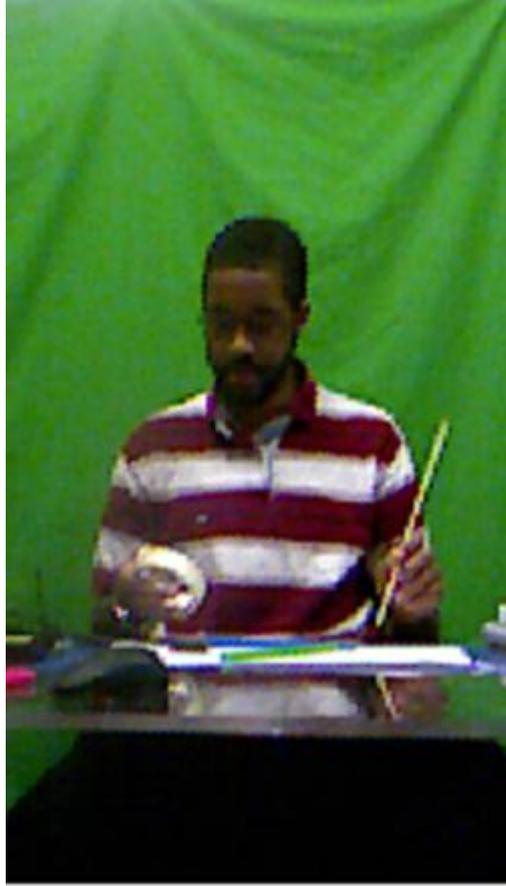
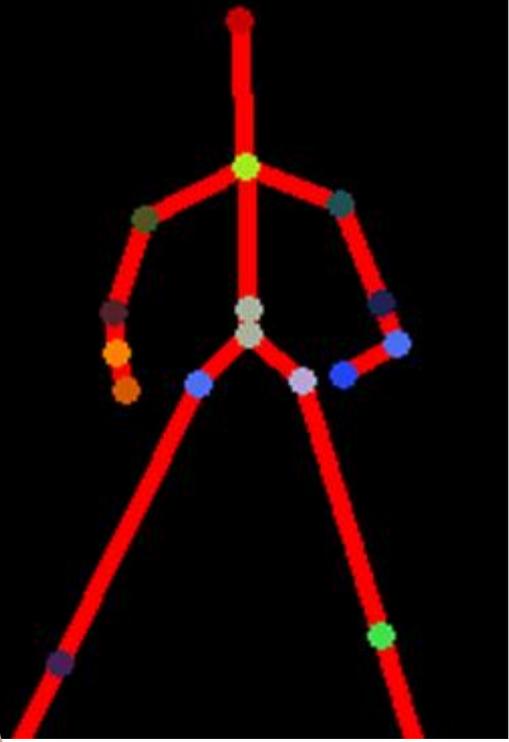


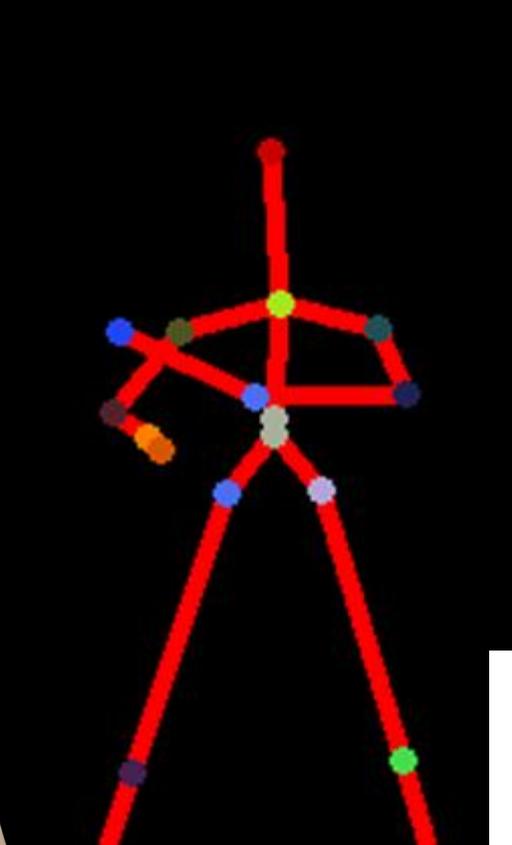
Foto Foto for...  
G-tack...  
Dad

Wit Kollani

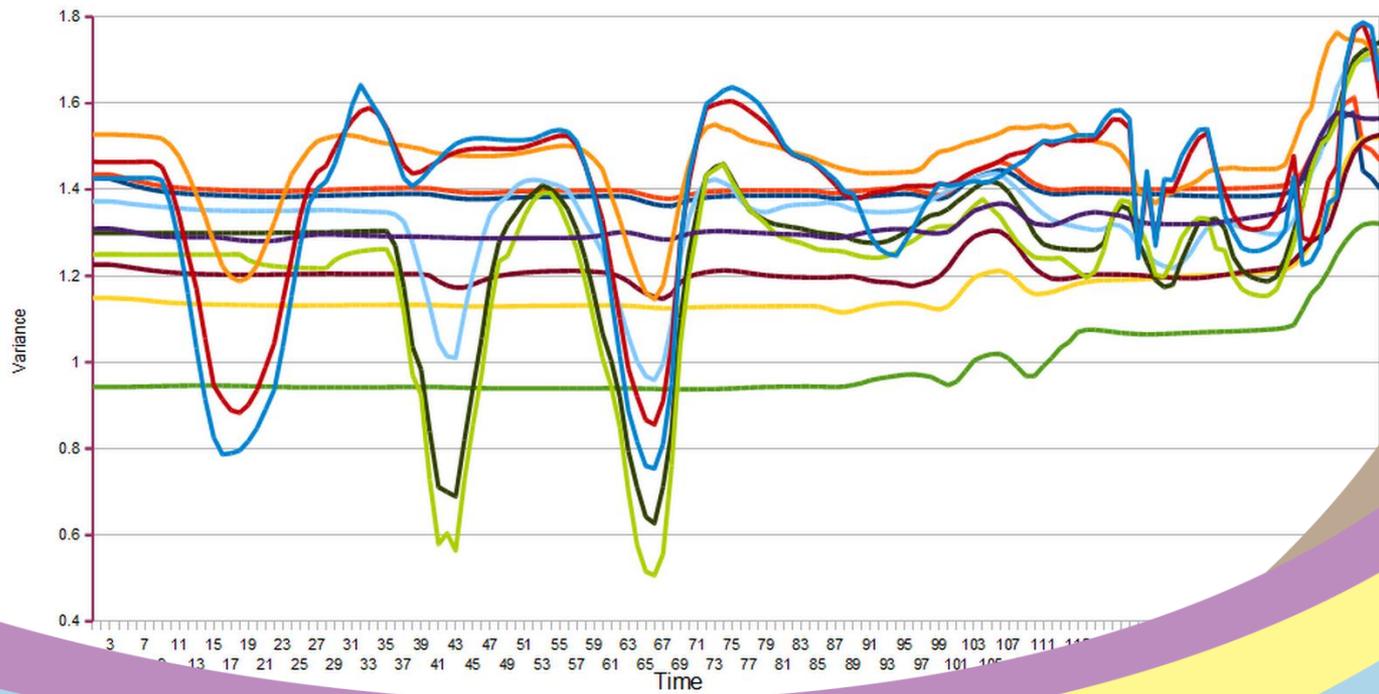


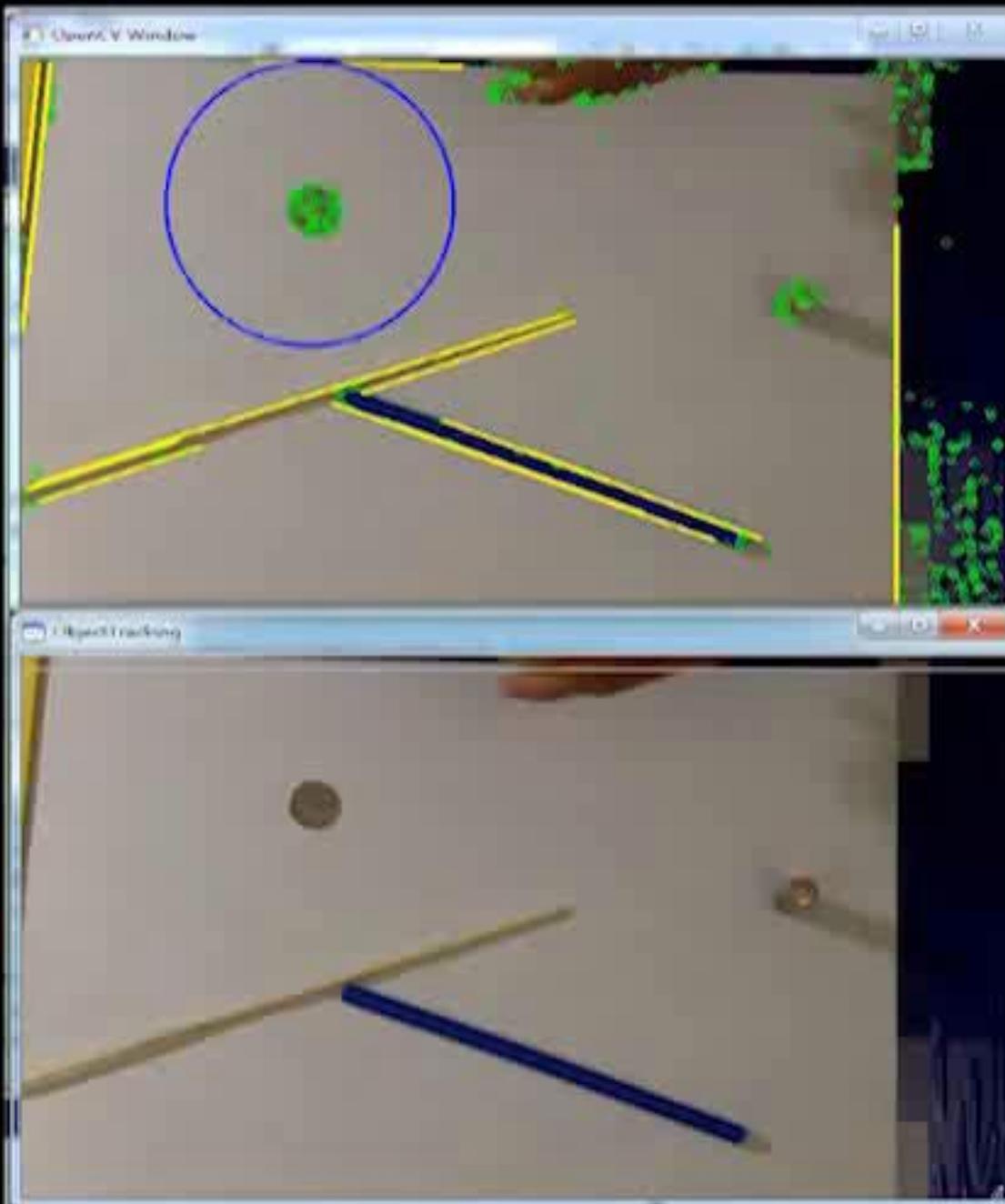






Variance of Extremities  
Upper Body









# FabLearn 2012

II Digital Fabrication in Education Conference

design • build • make • learn

SAVE  
THE  
DATE

DATE | October 17, 18 2012

TIME | 9:00AM - 4:00PM

Transformative Learning Technologies Lab  
520 Galvez Mall, Stanford, CA

STANFORD  
UNIVERSITY



<http://bit.ly/fablearn2012>

# Thank you!



**FabLab@School**



**Transformative Learning Technologies Lab**  
<http://tltl.stanford.edu>



**STANFORD**  
UNIVERSITY

# **Additional Slides**

**I might show**



Updated September 04, 2009

# N.J. Burger King Testing Energy-Producing Speed Bump

& Rick Leventhal - FOXNews

Would you like a charge with those fries?

PRINT

EMAIL

SHARE

✓ RECOMMEND

– A A A +



Can a fast food drive-thru lane actually provide clean green electricity?

A company called New Energy Technologies is betting on it.

The firm has developed a prototype device it's now testing at a Burger King in Hillside, New Jersey.

[Click here for a VIDEO report from FOX News Channel's Rick Leventhal](#)

The "Motion Power Energy Harvester" is designed to capture kinetic energy from vehicles that would otherwise be lost when drivers hit the brakes to pick up their Whoppers.

4 min

<http://youtu.be/Vwdi2U2ngyg>

1 min

<http://youtu.be/7Y7LlgJaw4c>

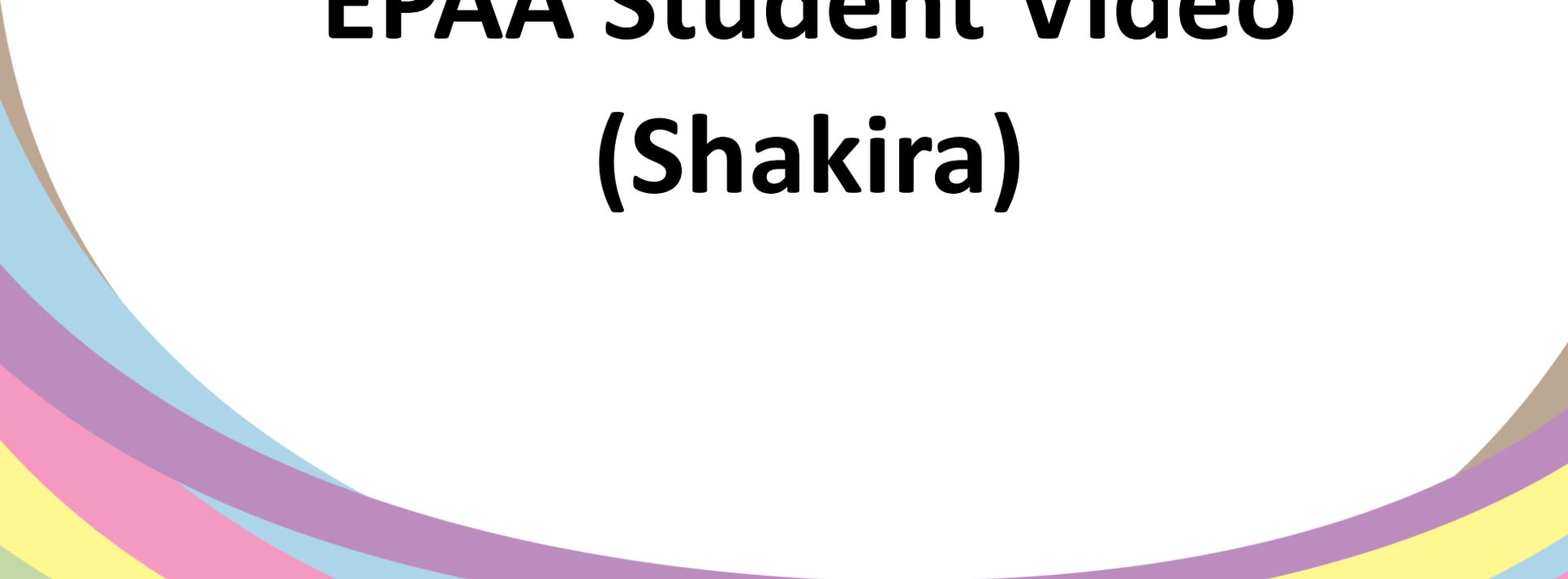
Shakira

<http://youtu.be/sEVC9qs4HMg>



# **EPAA Video**





# **EPAA Student Video (Shakira)**