MIND, BRAIN, AND EDUCATION SIG 2016

IT'S FOR REAL!

NEUROSCIENCE-BASED PEDAGOGY

ROBERT S. MURPHY, UNIVERSITY OF KITAKYUSHU
AI MURPHY, MURPHY SCHOOL OF EDUCATION

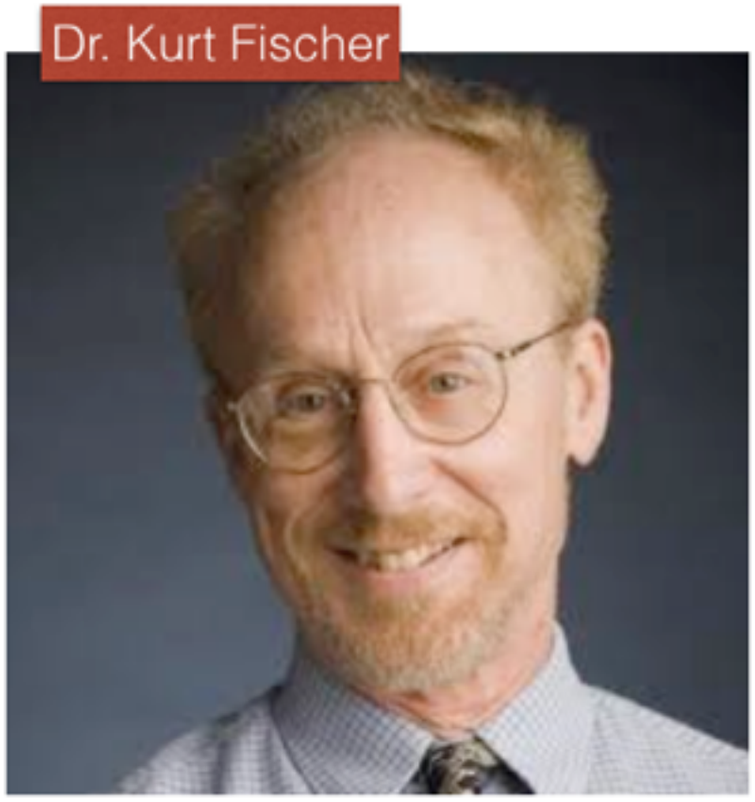
TODAY'S CONTENT

1. HOW DOES THE BRAIN LEARN?
2. WHAT ARE BRAIN 'UNFRIENDLY' ACTIVITIES?
3. HOW TO GET BETTER RESULTS!
4. NOW IT'S YOUR TURN!

1. HOW DOES THE BRAIN LEARN?

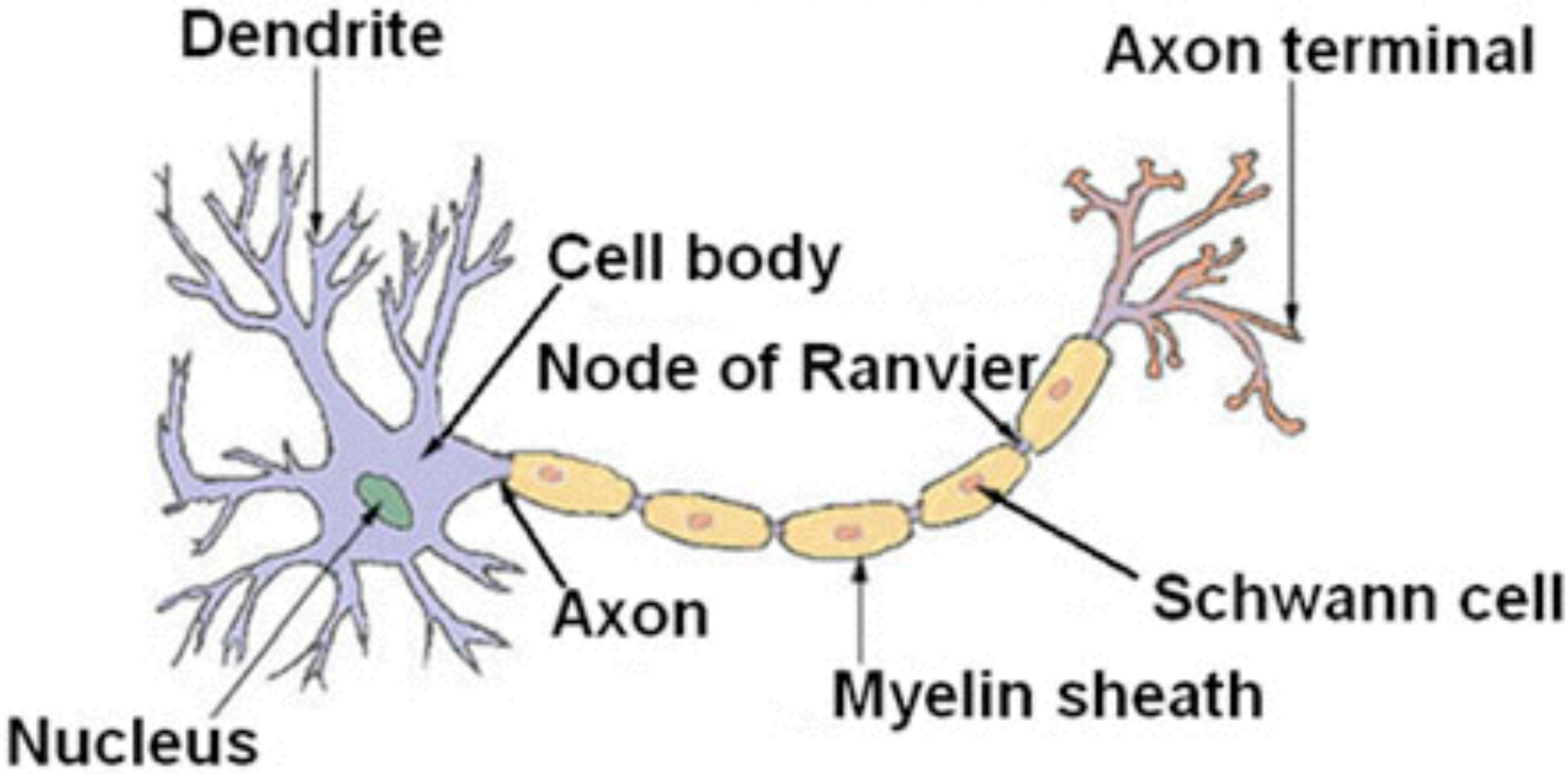
DYNAMIC SKILL THEORY

Harvard Graduate School of Education



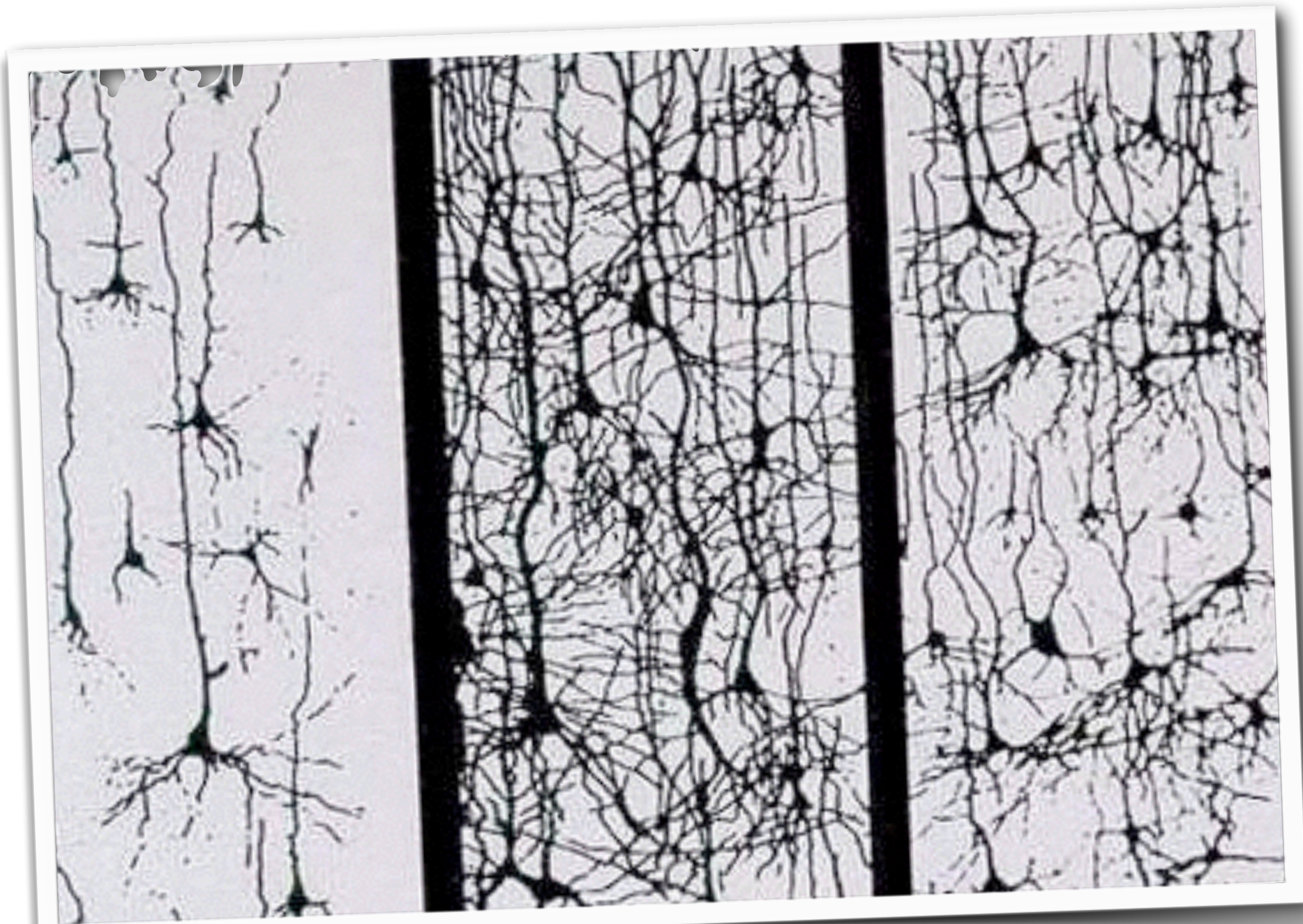
Mind, Brain, and Education
Program

Structure of a Typical Neuron

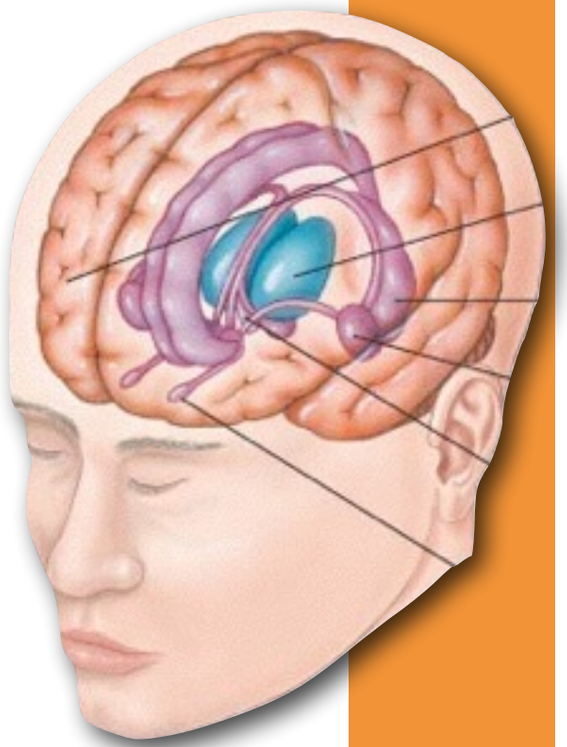


Robert S. Murphy 2015

Birth - 6m - JHS



Public Library Association

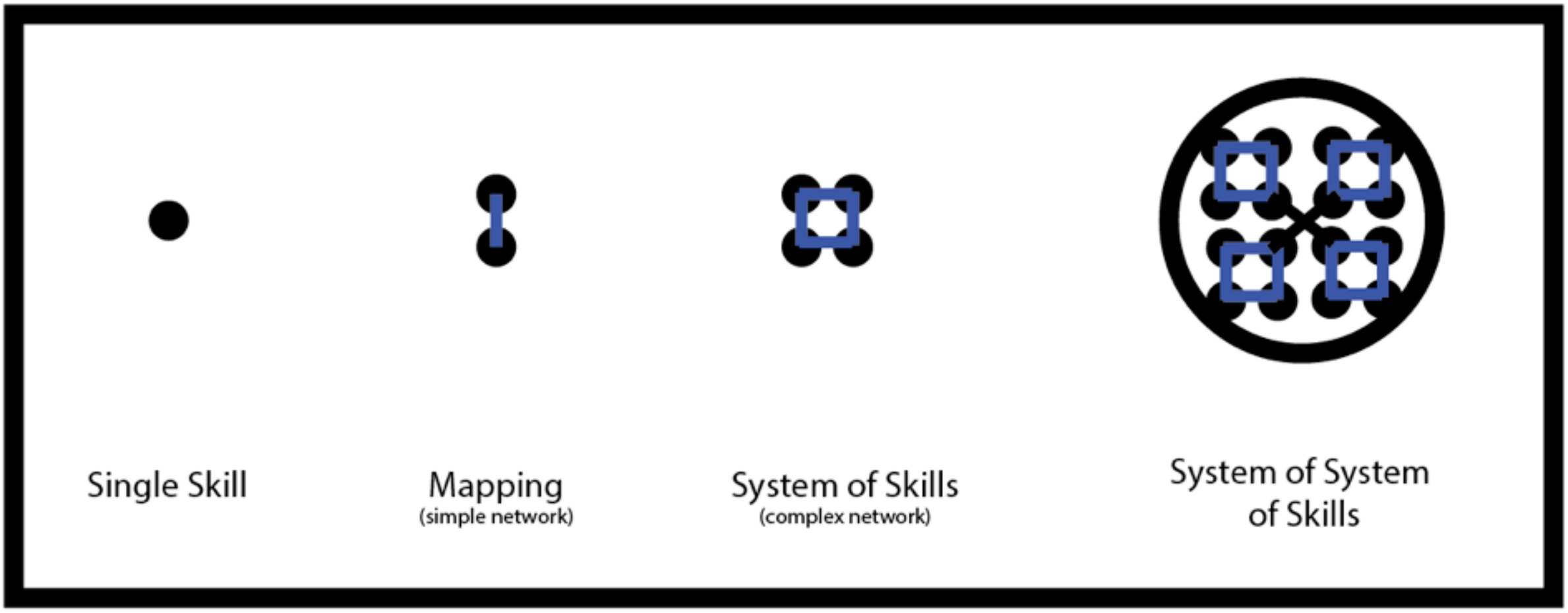


Q. What do you notice?

How do skill networks develp?

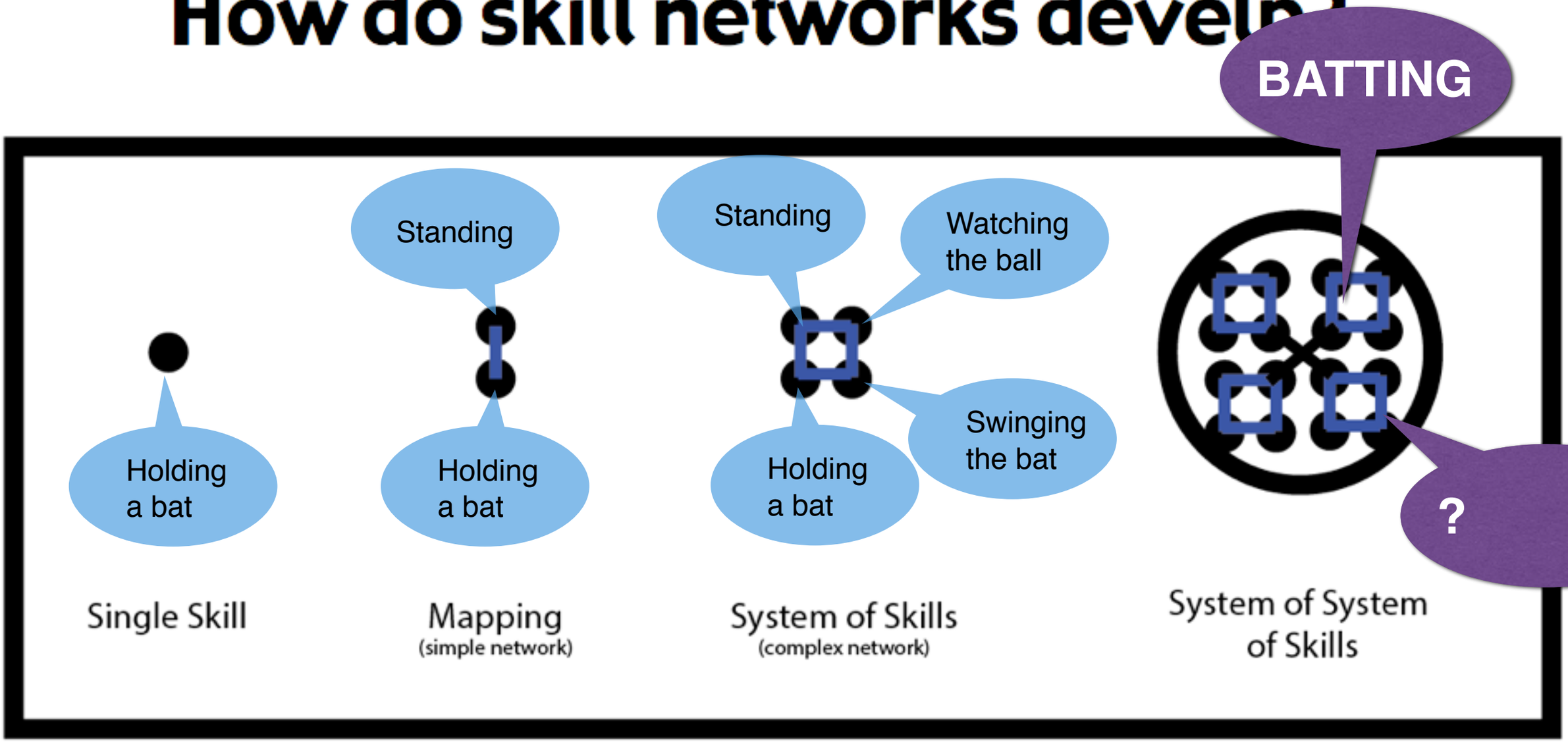
Robert S. Murphy 2015

How do skill networks develp?



Robert S. Murphy 2015

How do skill networks develp?



2. WHAT ARE BRAIN 'UNFRIENDLY' ACTIVITIES?

QUIZ TIME!

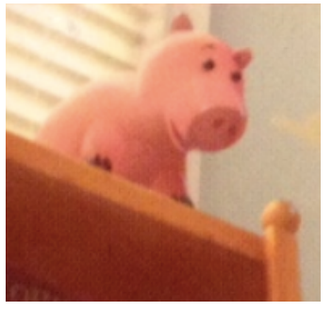
bad usage of flash cards, and TPR

2. WHAT ARE BRAIN 'UNFRIENDLY' ACTIVITIES?

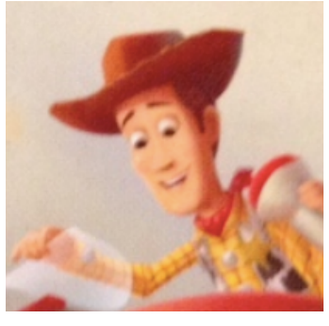
2. WHAT ARE BRAIN 'UNFRIENDLY' ACTIVITIES?

IS SHE "MICROPHONE"?

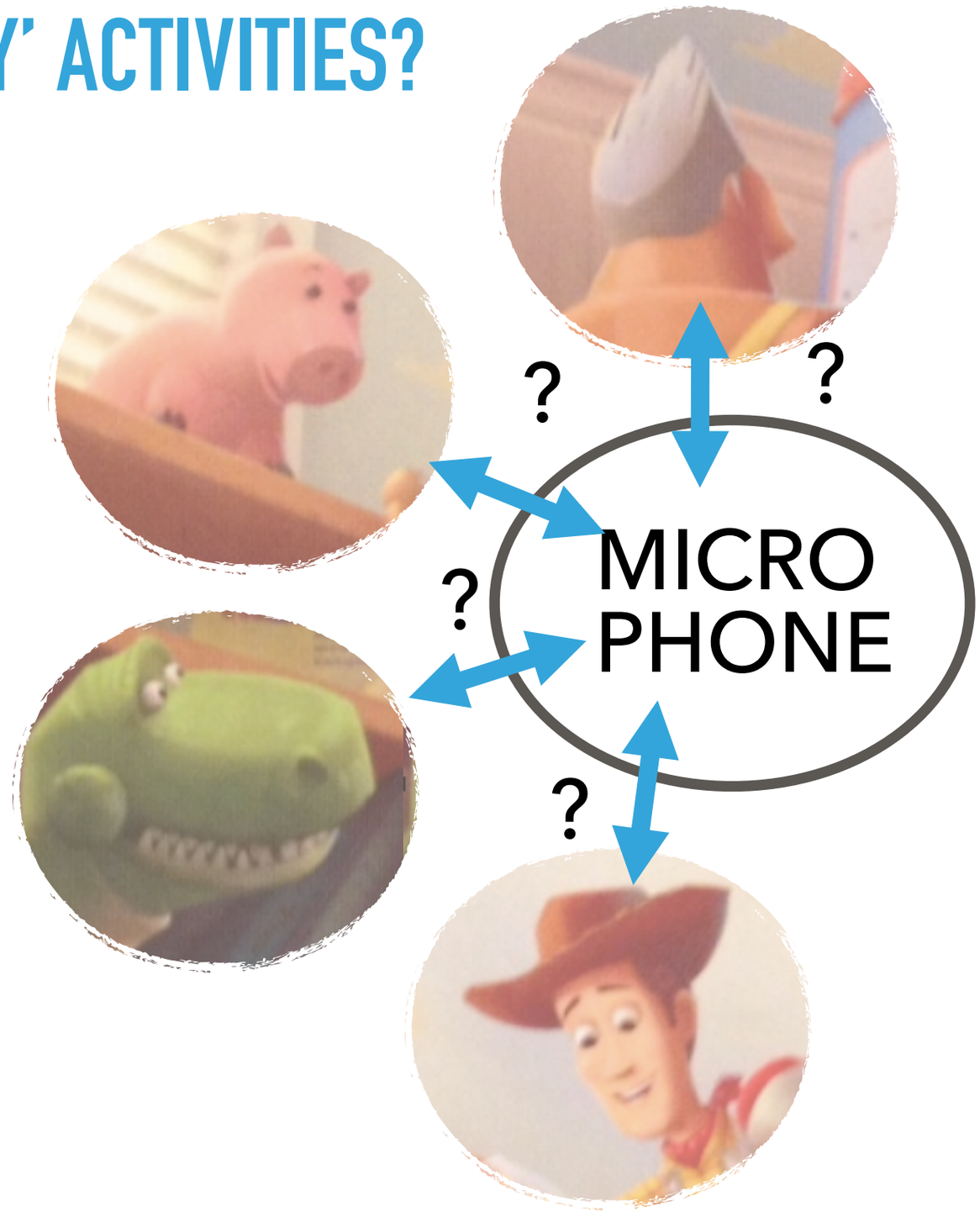
IS HE "MICROPHONE"?



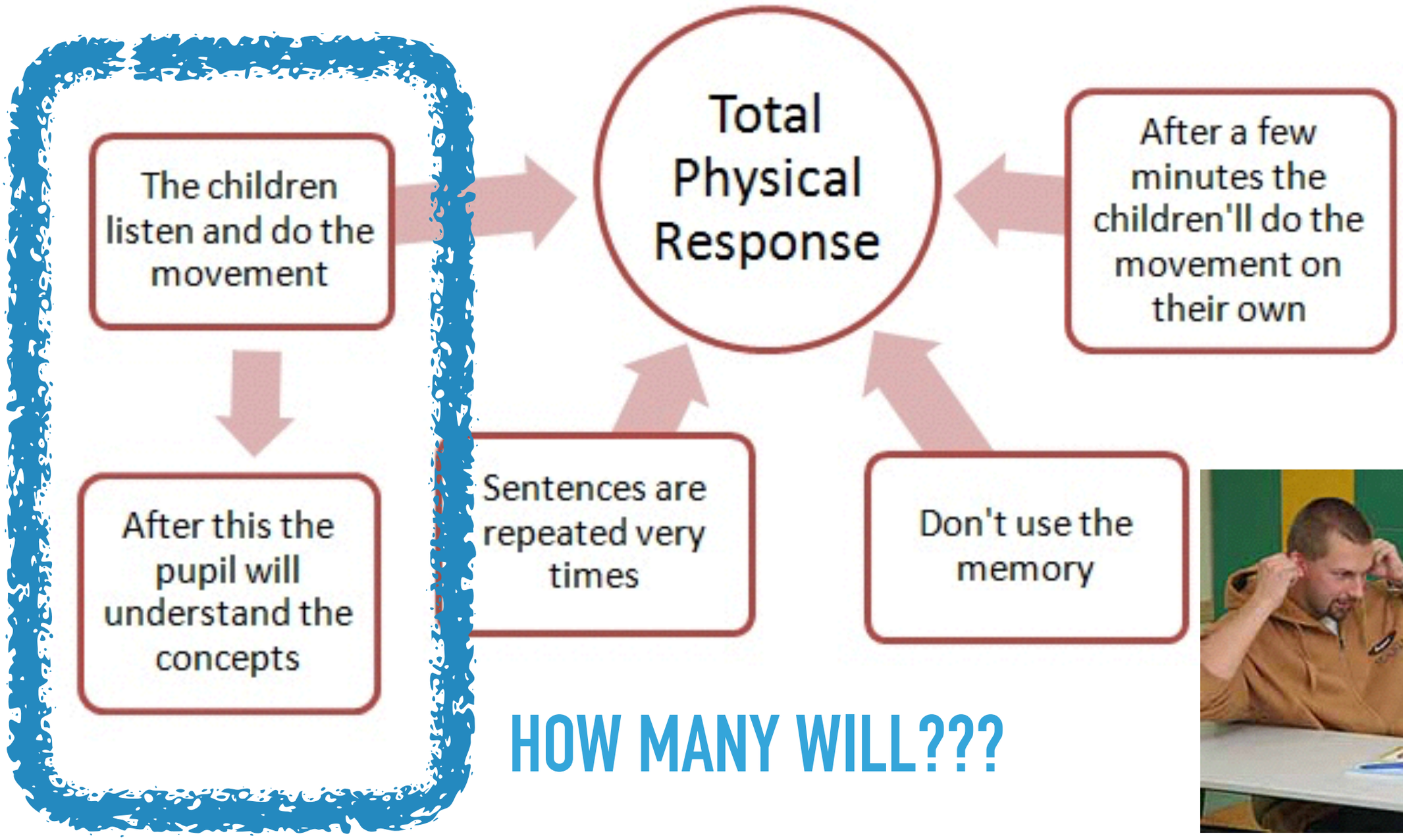
IS SHE "MICROPHONE"?



IS HE "MICROPHONE"?



2. WHAT ARE BRAIN 'UNFRIENDLY' ACTIVITIES?



HOW MANY WILL???

2. WHAT ARE BRAIN 'UNFRIENDLY' ACTIVITIES?

"Ears"

FUNNY MAN

3. HOW TO GET BETTER RESULTS

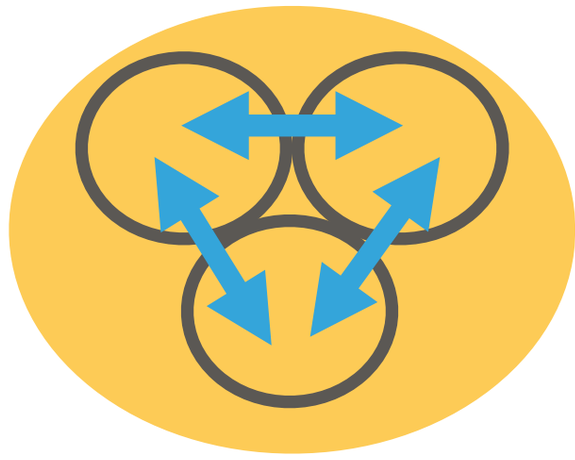
Don't leave learning up to "chance"!

3. HOW TO GET BETTER RESULTS

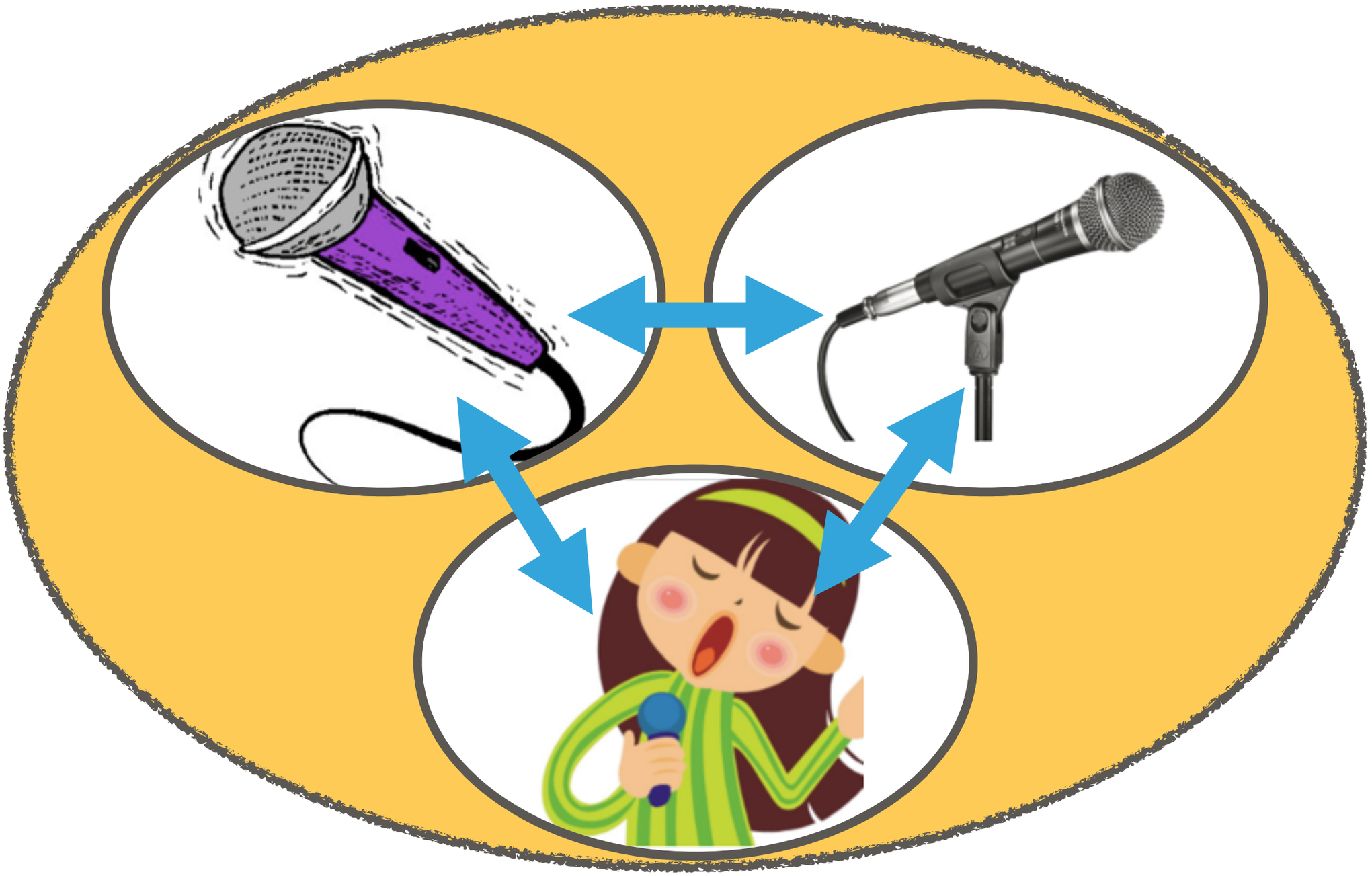
Don't leave learning up to "chance"!

All students learn differently!

Make sure there is a 'system of examples' that facilitates deductive learning.

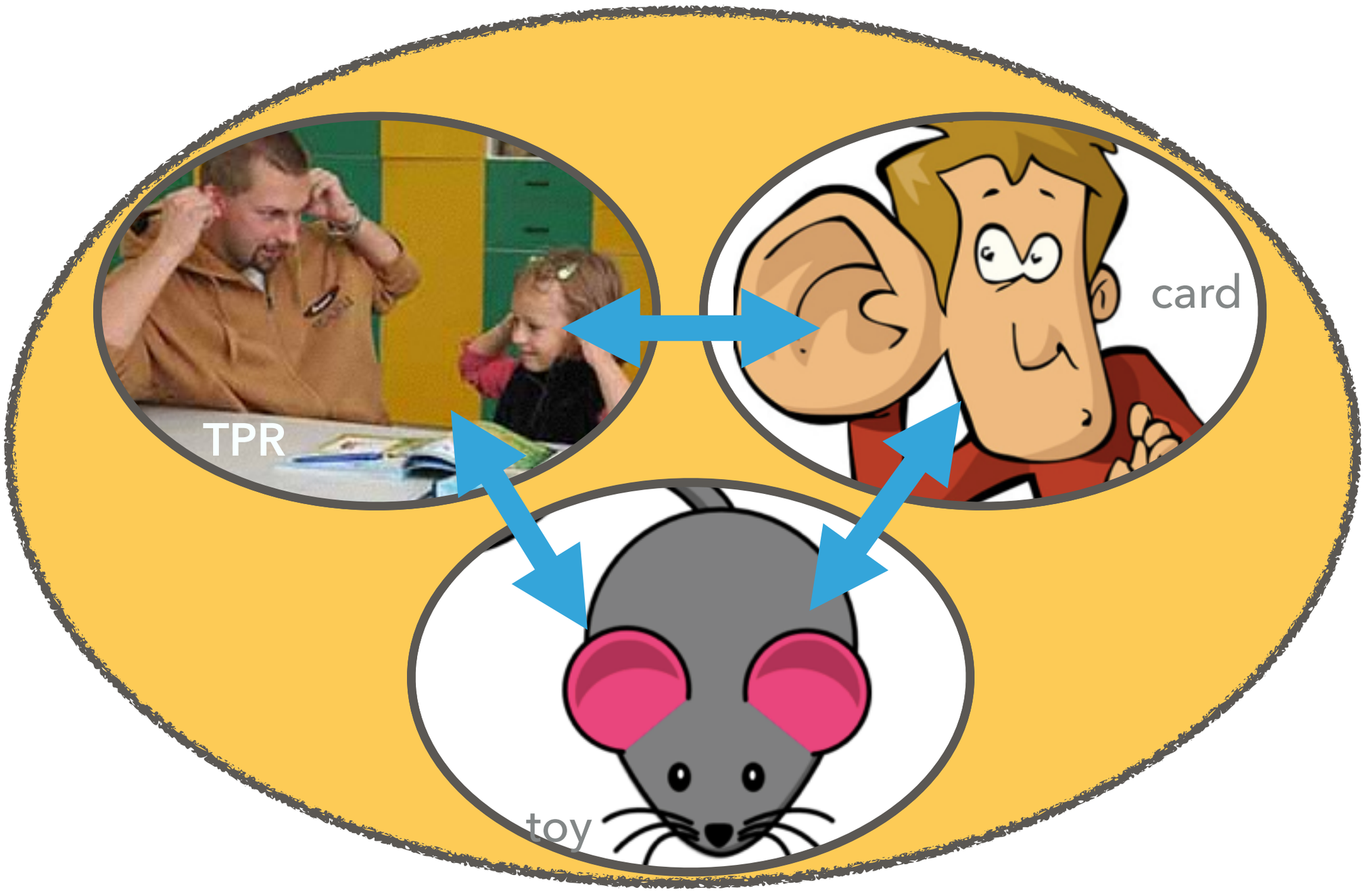


3. HOW TO GET BETTER RESULTS



MULTIPLE EXAMPLES MAKE A <u>UNIFIED</u> LOGIC SYSTEM

3. HOW TO GET BETTER RESULTS



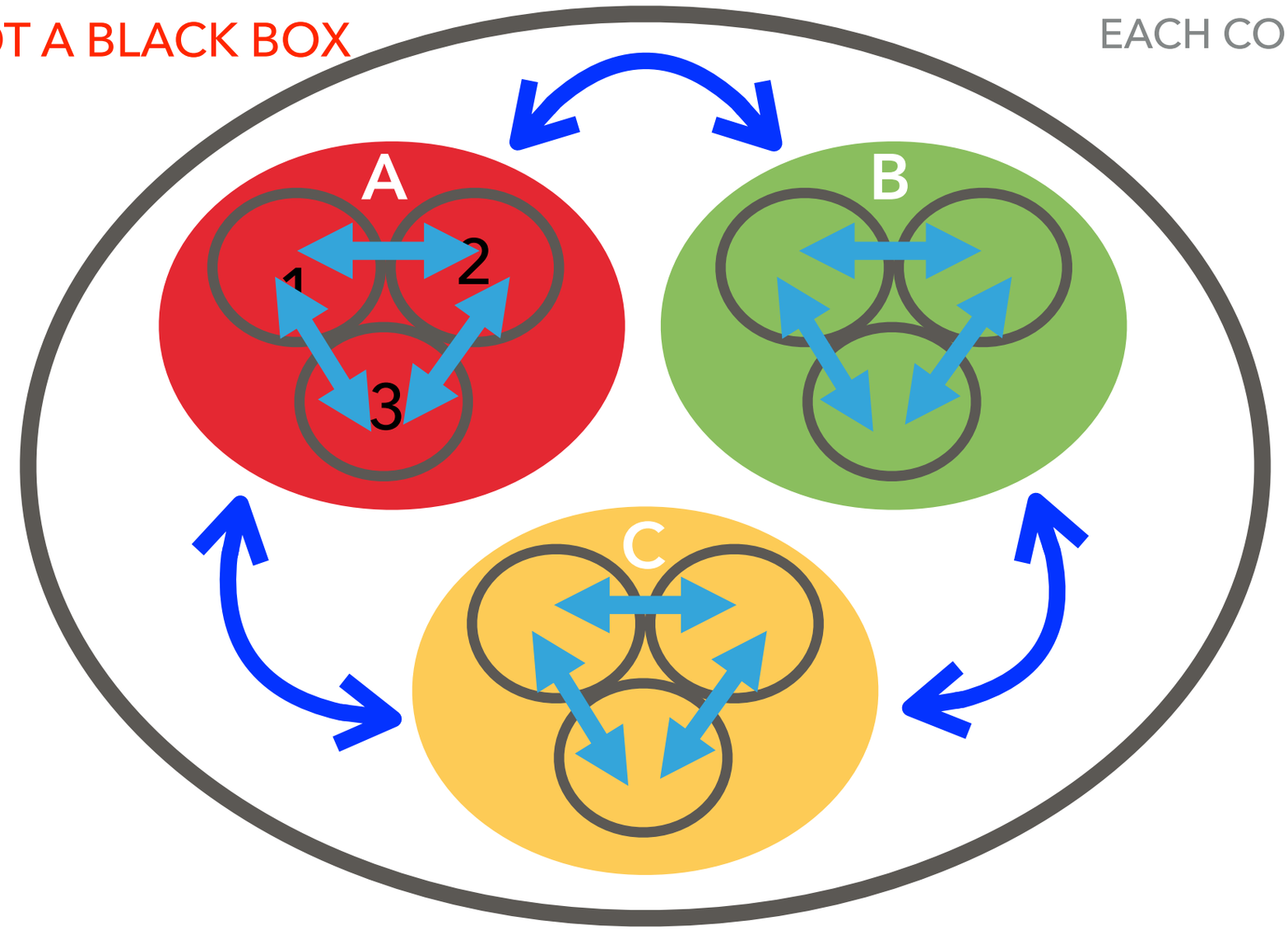
MULTIPLE EXAMPLES MAKE A <u>UNIFIED</u> LOGIC SYSTEM

3. HOW TO GET BETTER RESULTS

1. IDENTIFY YOUR TEACHING GOAL
2. IDENTIFY AT LEAST 3 CORE ELEMENTS OF GOAL
3. IDENTIFY AT LEAST 3 CORE ELEMENTS OF EACH CORE ELEMENT

LEARNING IS NOT LINEAR!

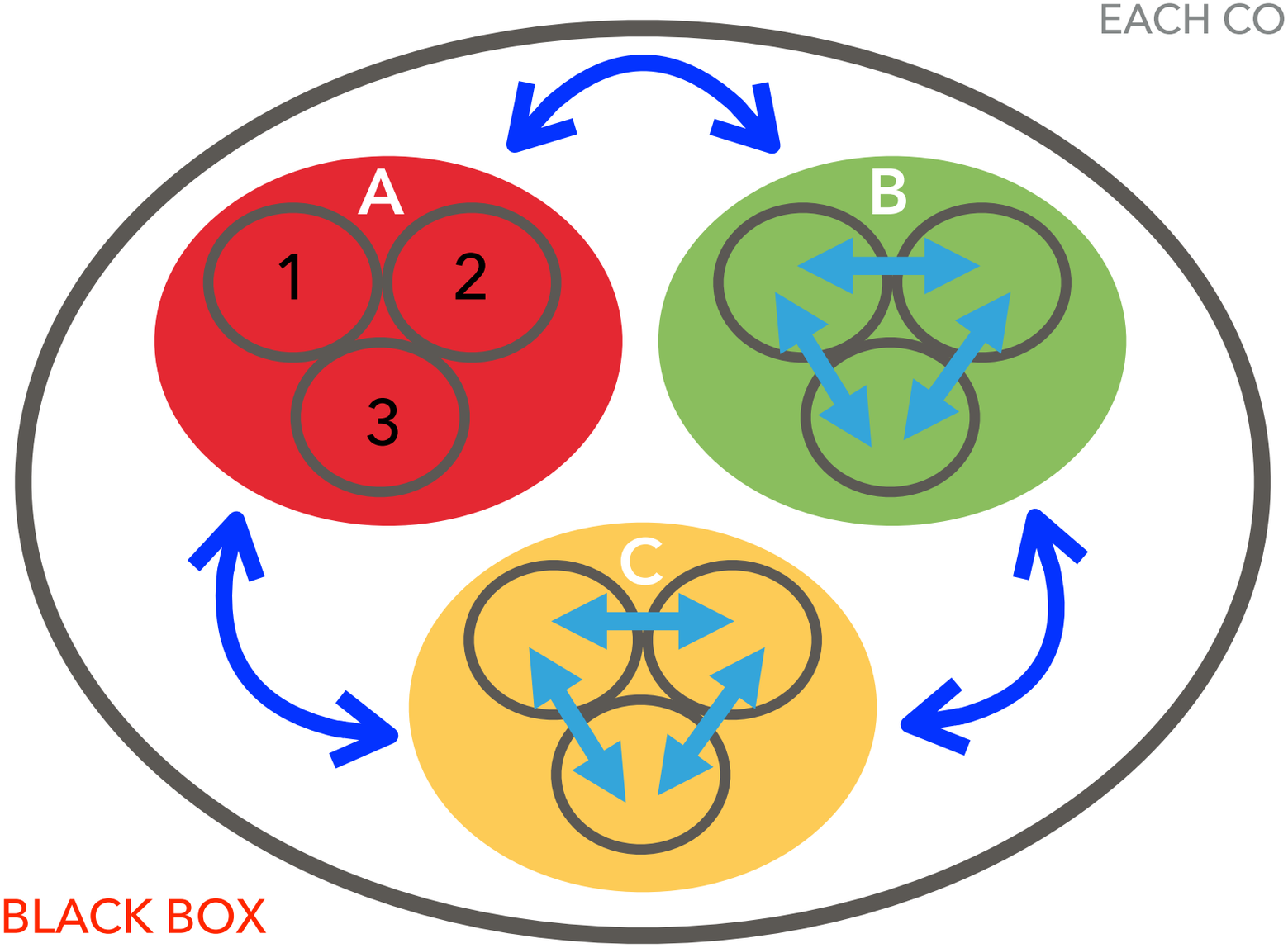
LEARNING NOT A BLACK BOX



4. NOW IT'S YOUR TURN!

begin syllabus design like this –not linear!

1. IDENTIFY YOUR TEACHING GOAL
2. IDENTIFY AT LEAST 3 CORE ELEMENTS OF GOAL
3. IDENTIFY AT LEAST 3 CORE ELEMENTS OF EACH CORE ELEMENT



LEARNING NOT A BLACK BOX
-don't treat it that way!

ROBERT S. MURPHY, UNIVERSITY OF KITAKYUSHU
AI MURPHY, MURPHY SCHOOL OF EDUCATION

email: m@murphyschool.com

IT'S FOR REAL!

NEUROSCIENCE-BASED PEDAGOGY

downloads
FAB-EFL.COM

find us on FACEBOOK