







# Xmuqane could not stop laughing at Jun B'atz' and Jun Chowen: Why not?



**Part 1.2** 

#### **Outline**

- 1. A story from the *Popol Wuj*
- 2. Cognitive psychology
- 3. Discussion time
- 4. Challenge yourself!











## (1) Popol Wuj

Do not laugh when you see them, or they will never return...



# The destiny of Jun B'atz' and Jun Chowen

- 1. Jun B'atz and Jun Chowen were turned into monkeys
- 2. They came back dancing and their grandmother laughed
- 3. Again and again and again
- 4. Four attempts and they were lost forever as monkeys

#### Day-night Stroop task

- How successful we are in controlling our behaviour depends on our executive function.
- Tap on the sun when Lara the alien says "night" and tap on the moon when she says "day".













### (2) Cognitive Science

Cognitive psychology: Executive function

#### What is executive function?

- The ability to control our behaviour according to the present situation
- 3 components
  - Working memory: Temporarily remember and manipulate information
  - Cognitive flexibility: Successfully switch between tasks or rules
  - Inhibitory control: Stop a habitual response

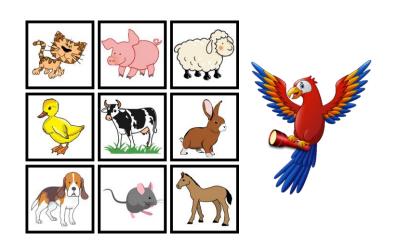
#### What is executive function?

- Which part of the brain? (Hint: one of the four lobes)
- EF in our daily life:
  - Create a plan for a goal
  - Work according to the plan
  - Change behaviour if the situation changes

### **Testing for EF**

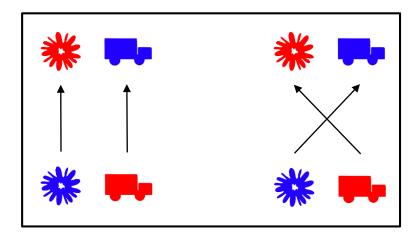
#### Task: Spatial memory

Instructions: Bobby is flashing a light on his animal friends. Can you remember the order of the light?



## Task: Dimensional change card sort (DCCS)

Instructions: Here are some cards. Sort these cards either by shape or by colour.













#### (3) Discussion time

How can we apply research findings to our daily life?

# Connecting researchers and educators

#### These are the findings:

- Scaffolding aids learning
- Curiosity and interest enhances learning

How would you apply them?











## (4) Are you up for the challenge?

Make DN Stroop more culturally relatable

#### The challenge:

- To what extent do you find DN Stroop to be culturally alienated?
- How would you change the task to make it more relatable to the children of your community?