



ENVIROTHON 2021

WHY??? BECAUSE 2020 IS CRAZY!

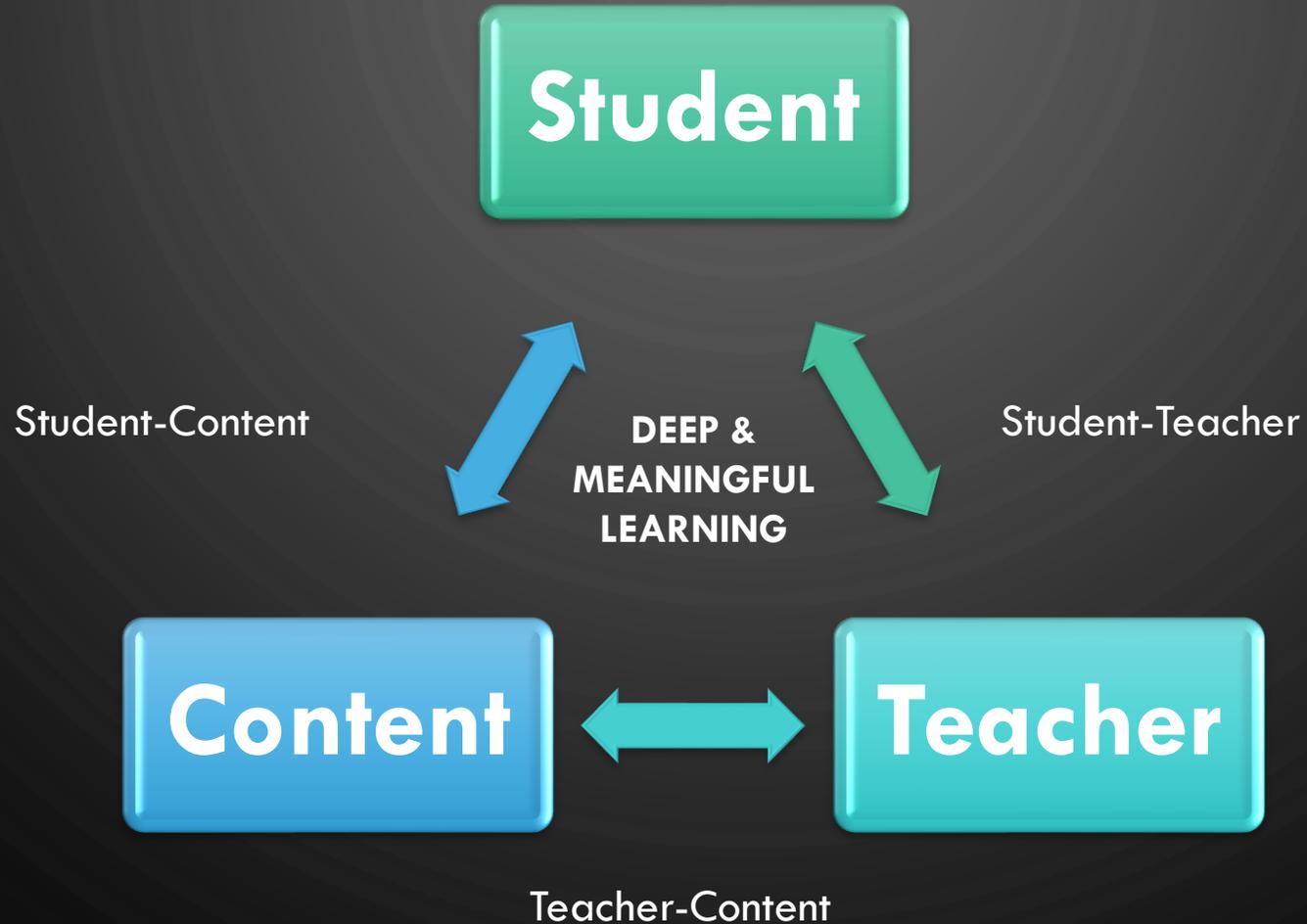


EMERGENCY TEACHING

VS

DISTANCE EDUCATION

MODES OF INTERACTION





MASLOW

BEFORE

BLOOM

Self-actualization

desire to become the most that one can be

Esteem

respect, self-esteem, status, recognition, strength, freedom

Love and belonging

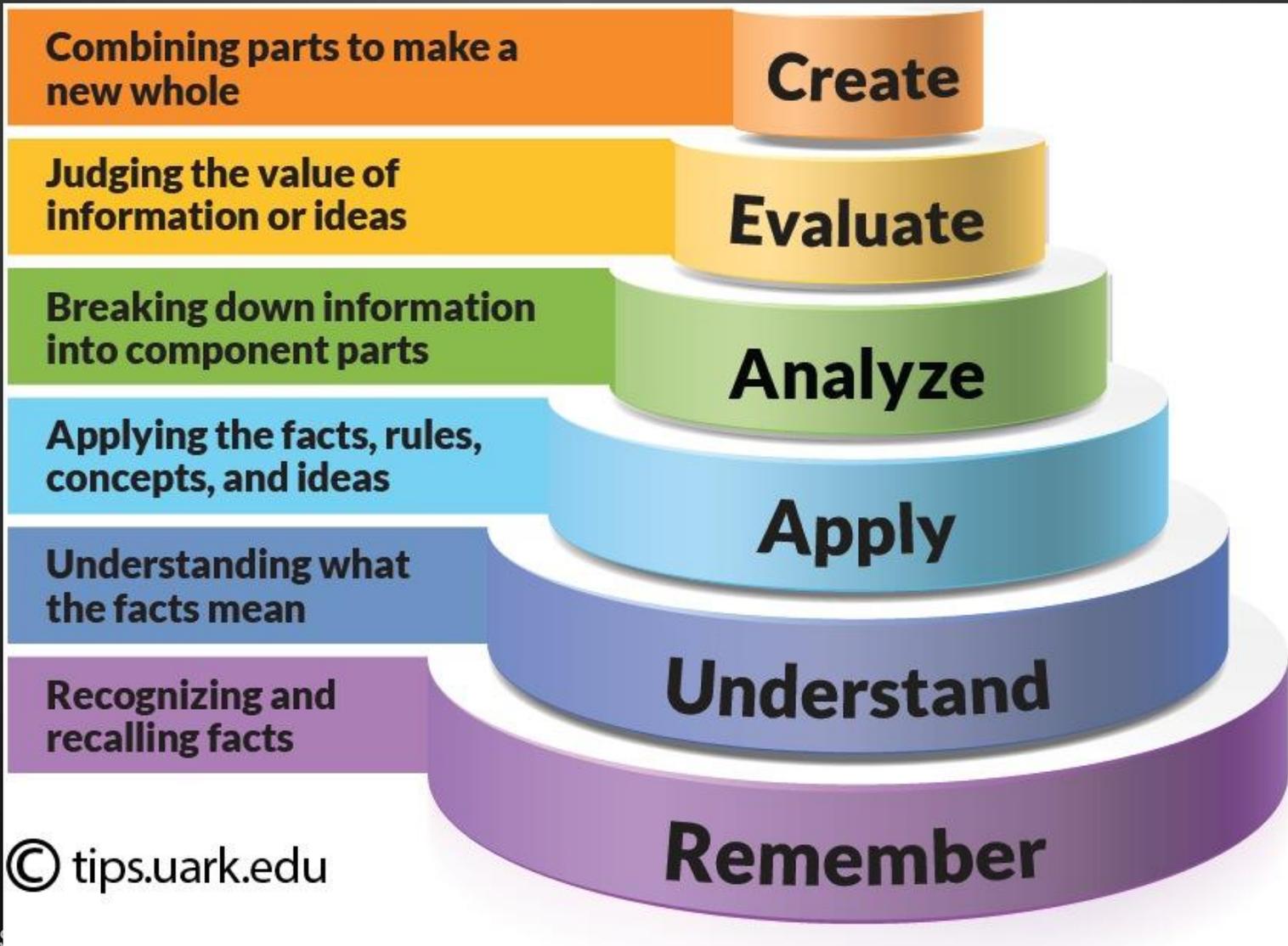
friendship, intimacy, family, sense of connection

Safety needs

personal security, employment, resources, health, property

Physiological needs

air, water, food, shelter, sleep, clothing, reproduction



CULTIVATING A CONNECTION

**COMMUNICATE YOUR OWN UNIQUE VOICE:
STUDENTS DESIRE LEARNING THAT IS COLOURED
WITH THE PERSONALITY OF THEIR TEACHER.**



CREATING POSITIVE RELATIONSHIPS

- LETTERS WITH ARTICLES OR PICTURES OF INTEREST
 - SMALL TOKENS
- SHARE STORIES FROM OWN EXPERIENCE
- ACADEMIC/SOCIAL SPLIT DURING SESSIONS
- INSTRUCTOR PARTICIPATION IN ACTIVITIES
- REDESIGN ASSIGNMENTS AND ACTIVITIES
- GIVE CHOICES! CELEBRATE THE DIVERSITY OF CHOICES

To corona
virus



You destroyed

my birthday.

you are

the ~~first~~ word



IMPORTANCE OF CELEBRATION

- CELEBRATE OUR LEARNERS, OUR YEAR, AND THEIR ACADEMIC SUCCESS!
- CELEBRATE AS EDUCATORS: OUR ABILITY TO TRANSFORM, TO HELP OUR STUDENTS IN A WORLD CRISIS, AND TO HELP OURSELVES.





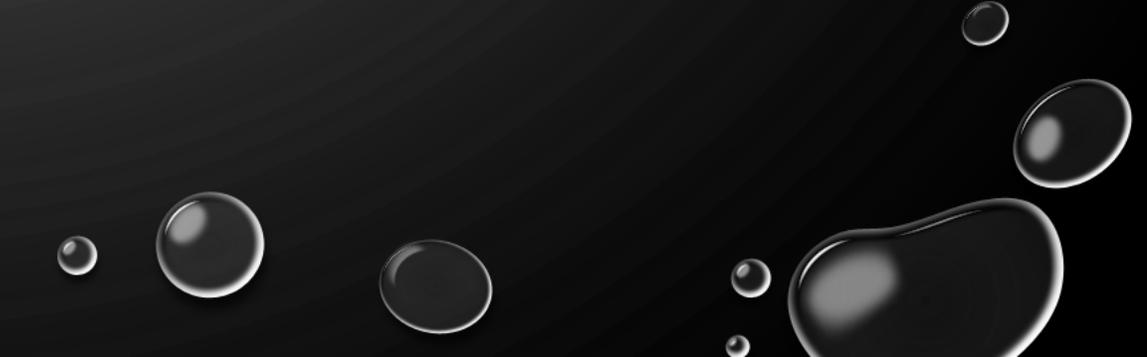








IMPORTANCE OF EARLY WINS: WHAT IS SUCCESS??

- ✓ CONNECTING WITH TEACHERS, STUDENTS & FAMILIES
 - ✓ BUILDING UPON PRIOR SUCCESSES WITH STUDENTS
 - ✓ PARTICIPATING IN THE TRANSITION FROM EMERGENCY
TEACHING TO DISTANCE EDUCATION
- 

EXPERIENTIAL TEACHING & LEARNING

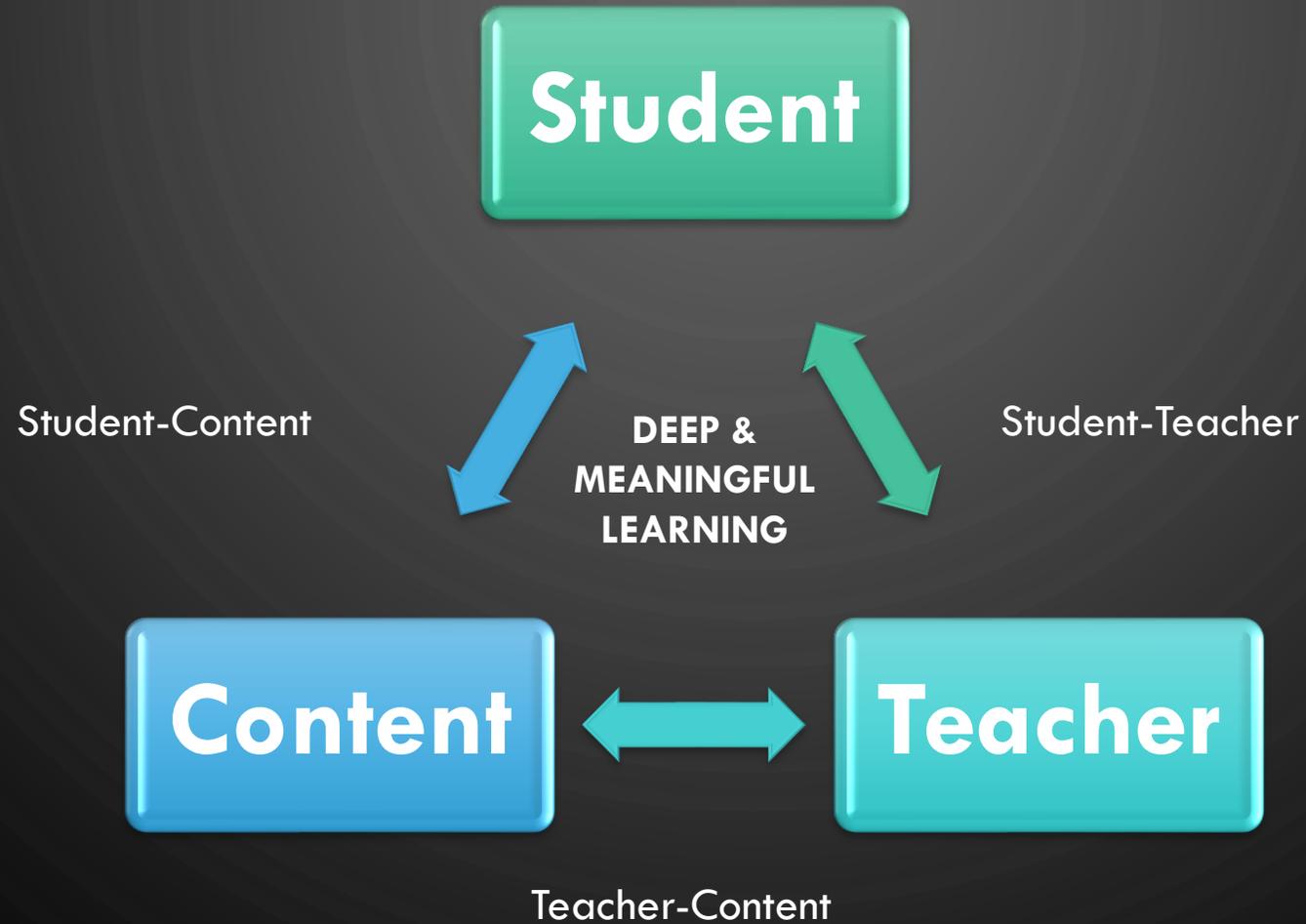


PAPER AIRPLANE



YOU'RE DOING IT RIGHT

MODES OF INTERACTION





MOTIVATION TO LEARN

- DIRECTLY AFFECTS THE AMOUNT OF TIME THAT PEOPLE ARE WILLING TO DEVOTE TO LEARNING!!



INTRINSIC MOTIVATION

- FAILURE IS NOT PUNISHED
- OBJECTIVES ARE MEANINGFUL
- A VARIETY OF STRATEGIES ARE USED
- HIGHER LEVEL OBJECTIVES AND DIVERGENT QUESTIONS
- PROBLEMS ARE AT APPROPRIATE LEVEL OF DIFFICULTY
- OPPORTUNITIES FOR ACTIVE RESPONSE
- OPPORTUNITY TO CREATE FINISHED PRODUCTS
- OPPORTUNITY TO INTERACT WITH PEERS



COMMUNITY-CENTERED ENVIRONMENTS INCLUDE:

CLASS

SCHOOL

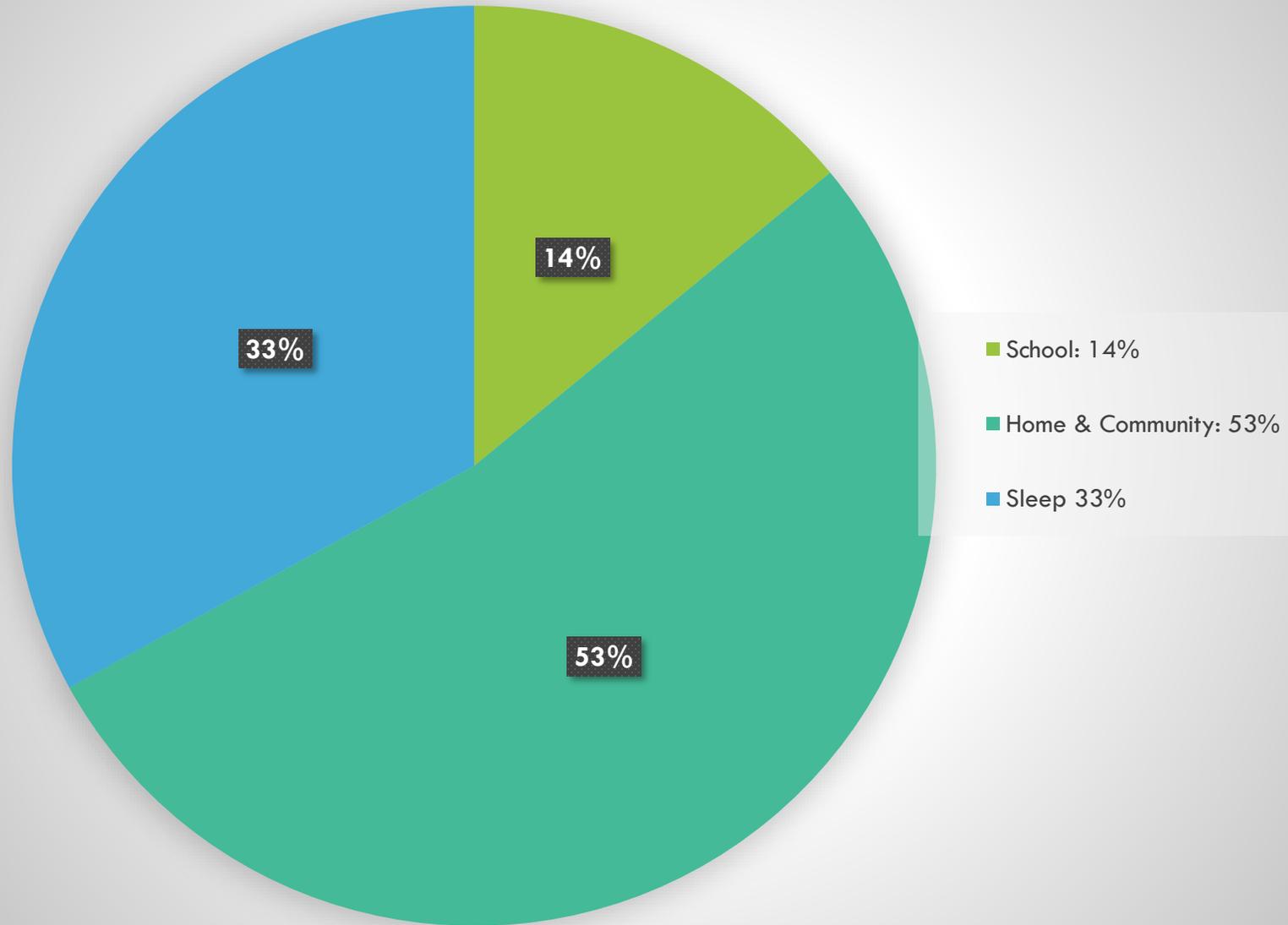
HOMES

COMMUNITY

BUSINESSES

CULTURE

Time



**In-Person Event vs
Virtual Event:
what is possible and
what is not**

**Finding the most
common elements for
all students:
experiences at home
and in community**

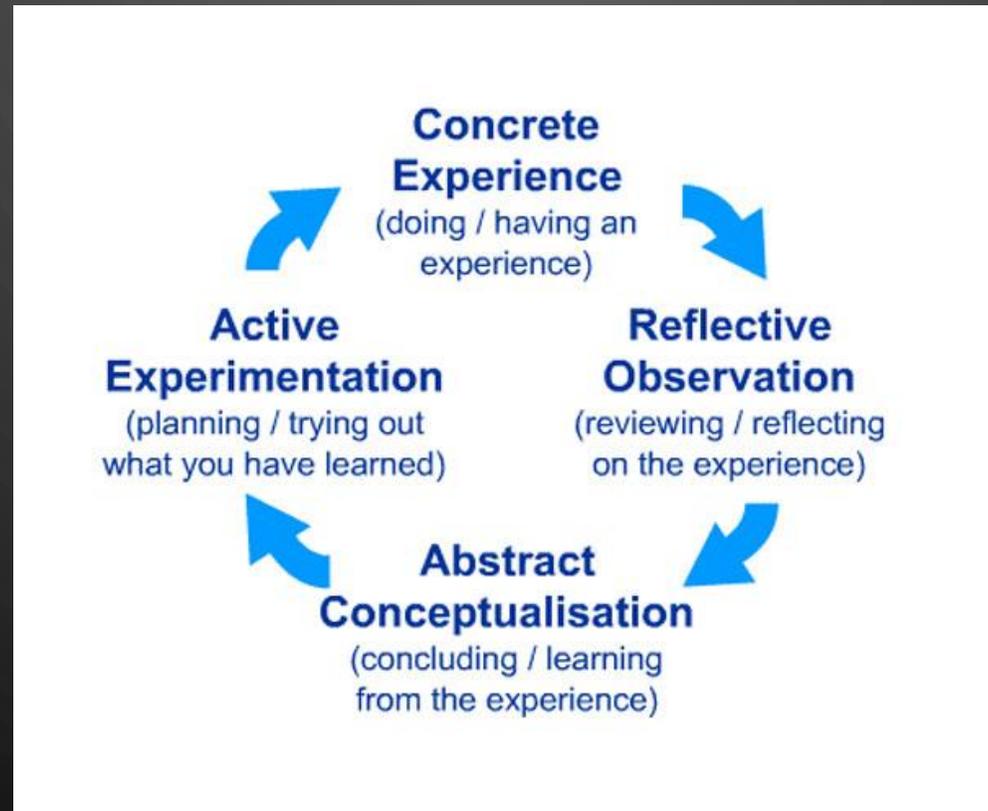
WHAT IS EXPERIENTIAL LEARNING?

DIRKX WRITES OF
LEARNING THROUGH SOUL
INVOLVING A

FOCUS ON THE INTERFACE WHERE THE SOCIOEMOTIONAL AND THE INTELLECTUAL
WORLD MEET, WHERE THE INNER AND OUTER WORLDS CONVERGE.

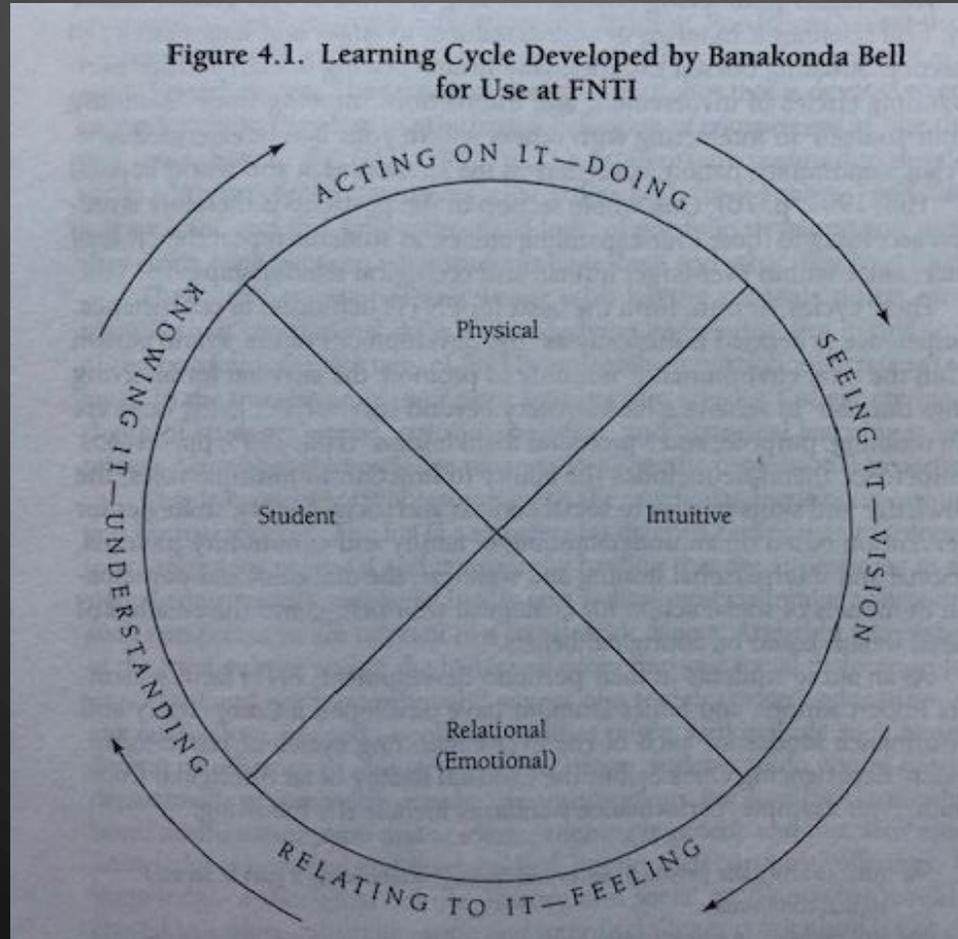
1. DIRKX (1997, P. 85)

KOLB'S EXPERIENTIAL LEARNING CYCLE



FIRST NATIONS TECHNICAL INSTITUTE

Figure 4.1. Learning Cycle Developed by Banakonda Bell
for Use at FNTI





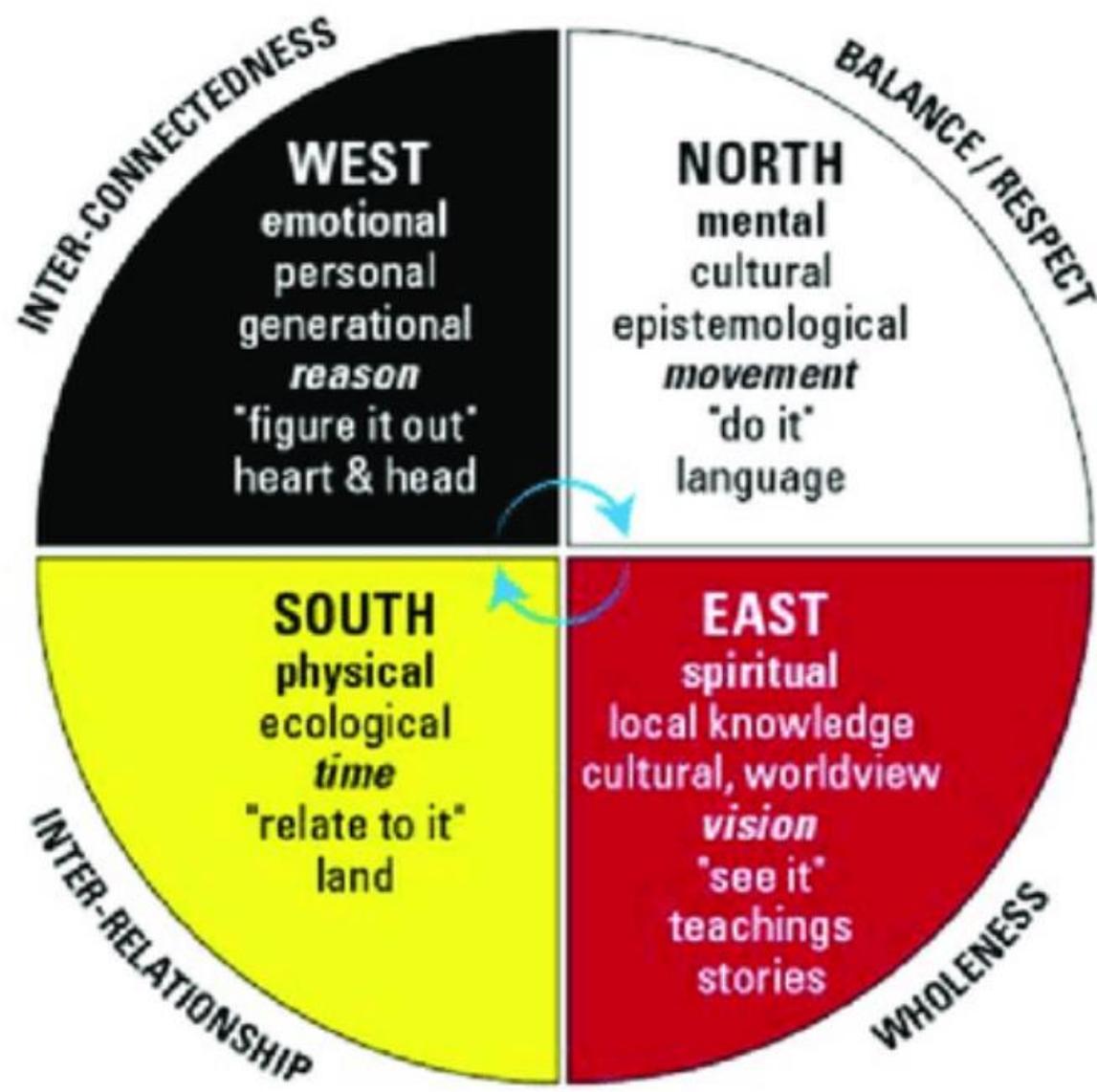
KNOW IT

DO IT

FULL CIRCLE:
FIRST NATIONS,
MÉTIS, INUIT
WAYS OF
KNOWING

SEE IT

FEEL IT





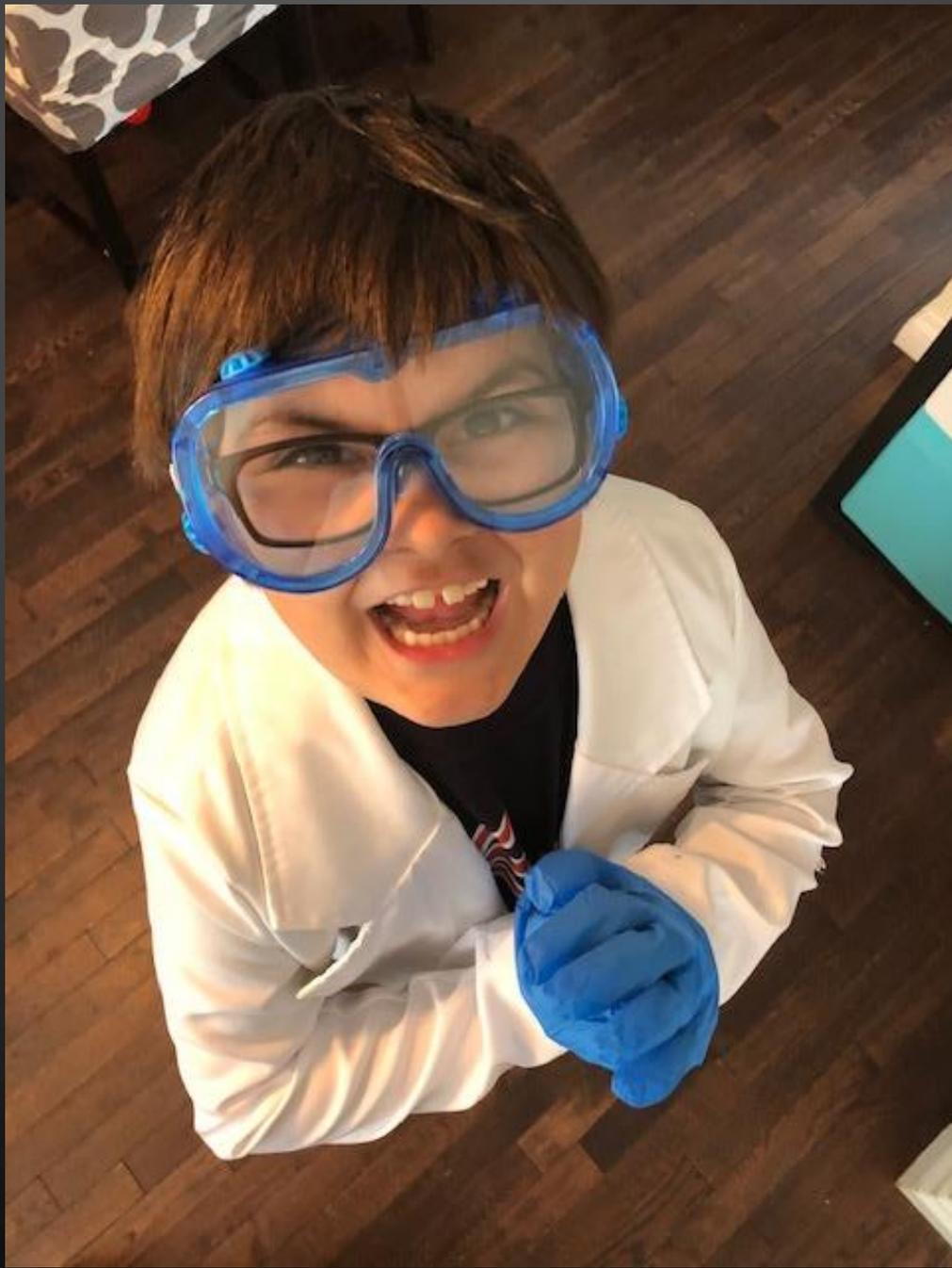
ANTICIPATED RESULTS

1. HELPING STUDENTS TO PRIZE THEMSELVES, TO BUILD CONFIDENCE AND SELF-ESTEEM
2. A BETTER UNDERSTANDING OF WHAT THEORY FROM READING OR LECTURES MIGHT MEAN IN ACTUAL PRACTICE
3. UNCOVERING THE EXCITEMENT IN INTELLECTUAL AND EMOTIONAL DISCOVERY
4. HELPING TEACHERS TO GROW AS PERSONS, FINDING RICH SATISFACTION IN THEIR INTERACTIONS WITH LEARNERS

**I DON'T ALWAYS MAKE
PAPER AIRPLANES**



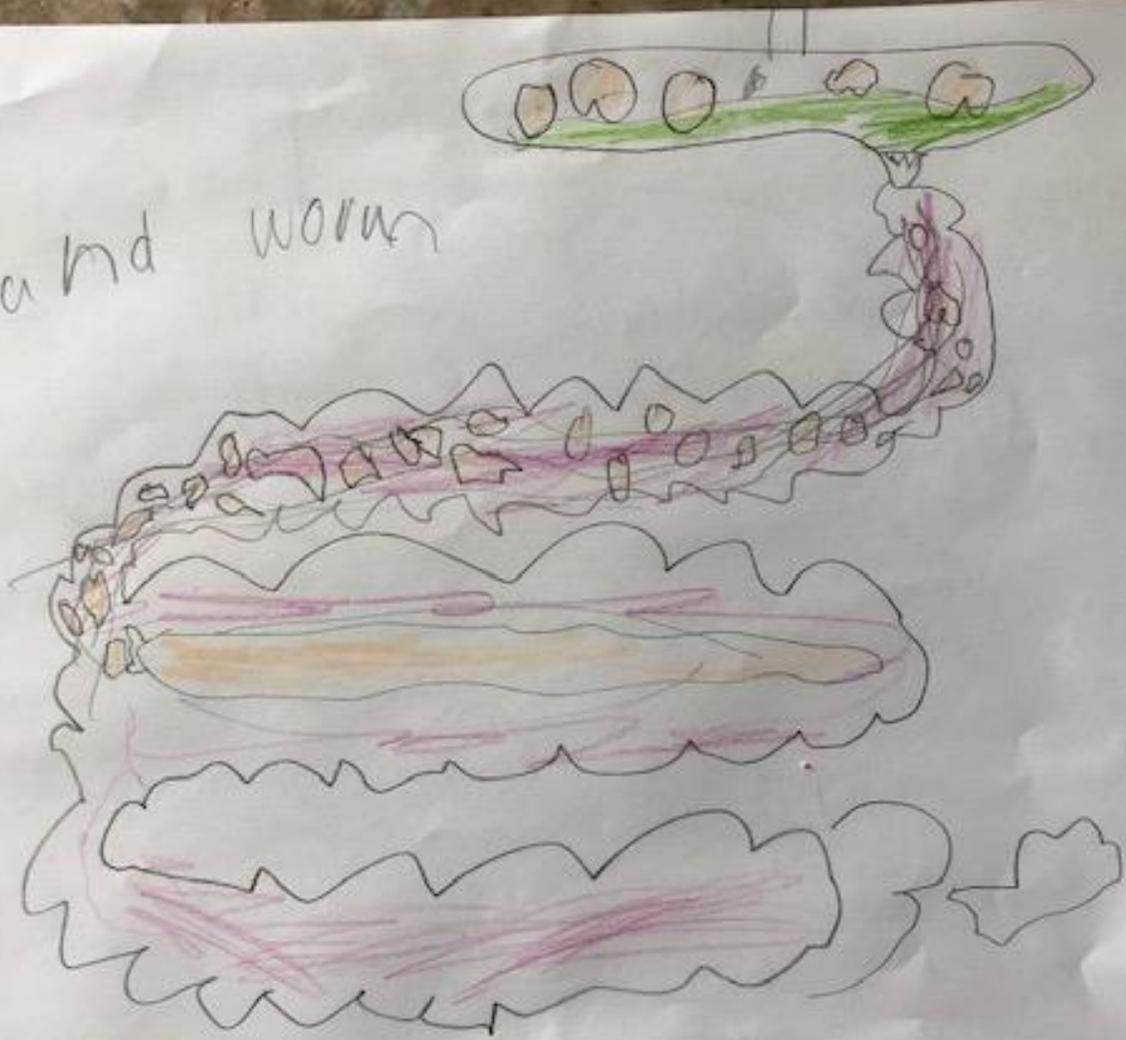
**BUT WHEN I DO
THEY FLY FOREVER**

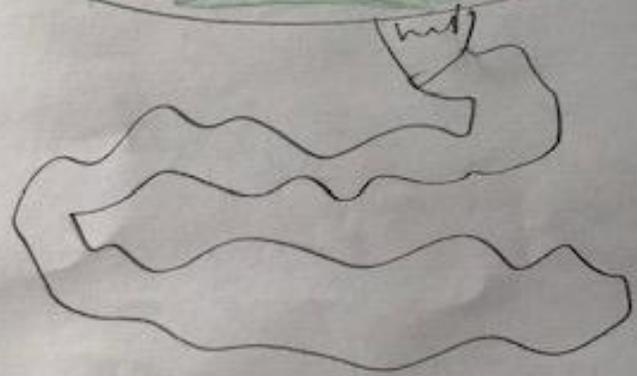
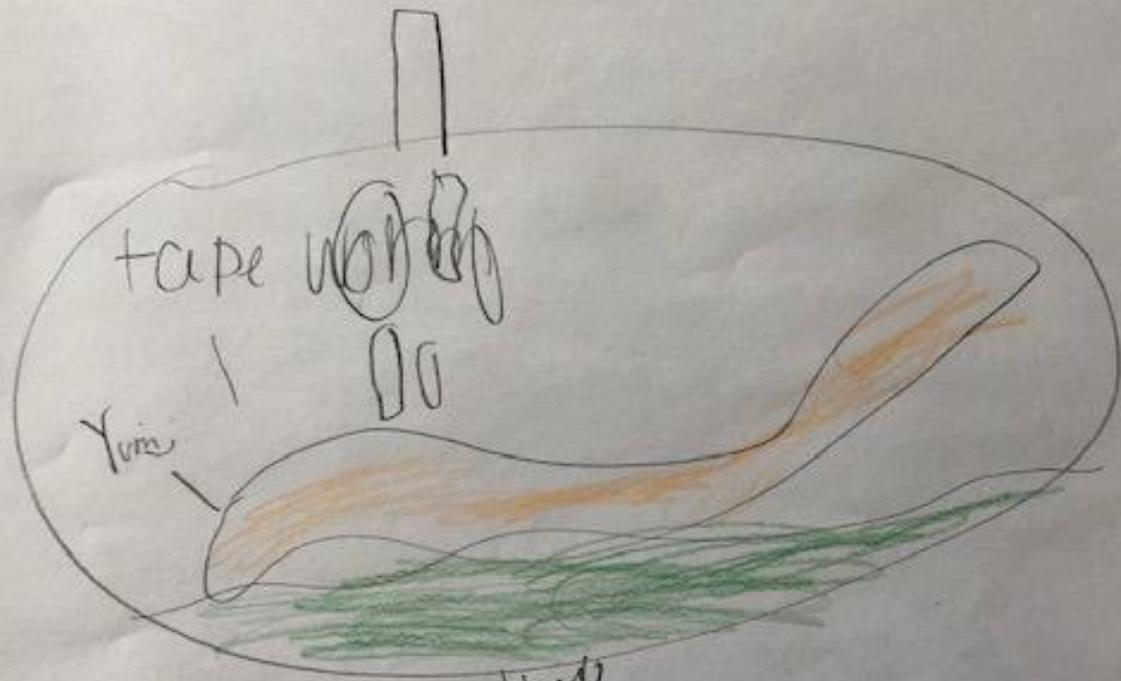






round worm





YOU GET A TAPEWORM,

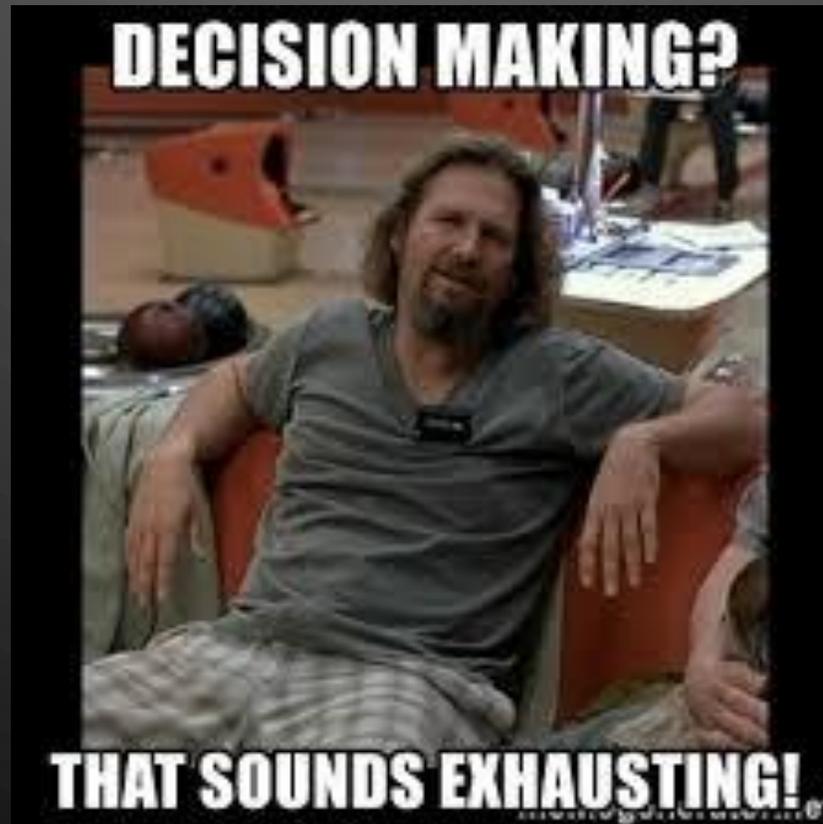


EVERYONE GETS A TAPEWORM



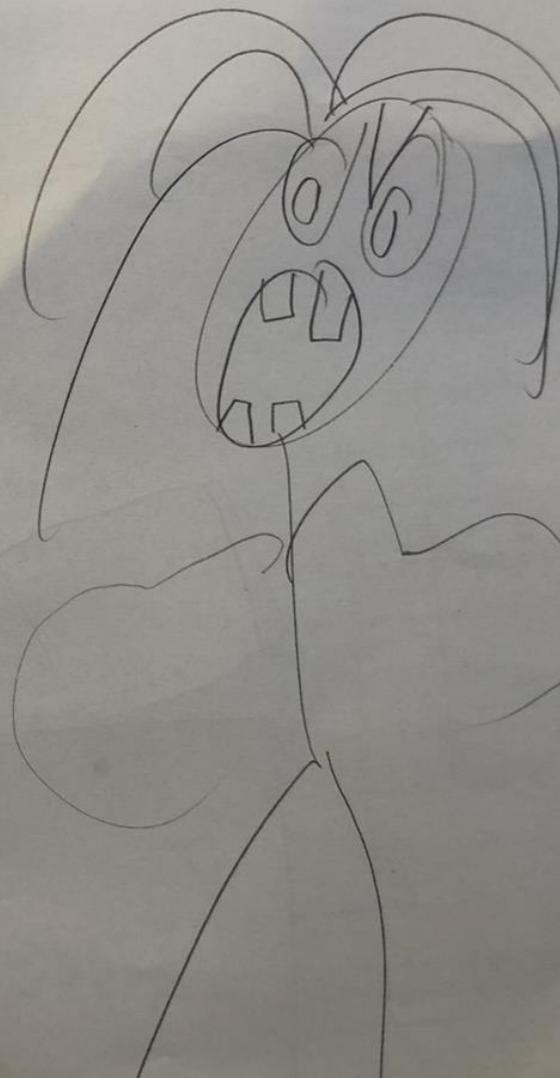
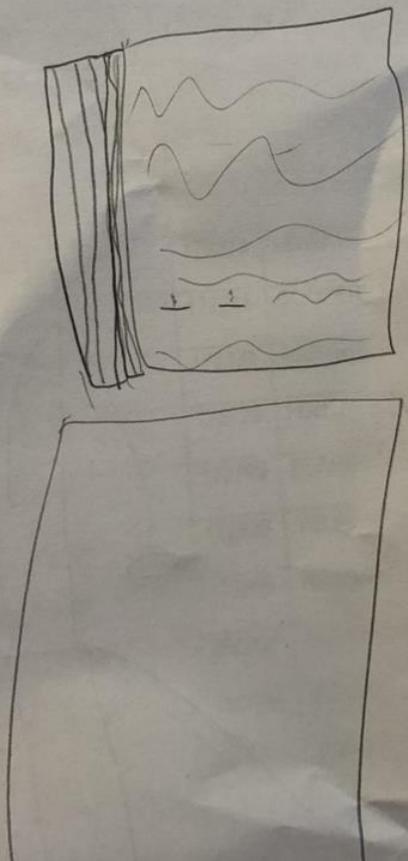
ENVIROTHON!!

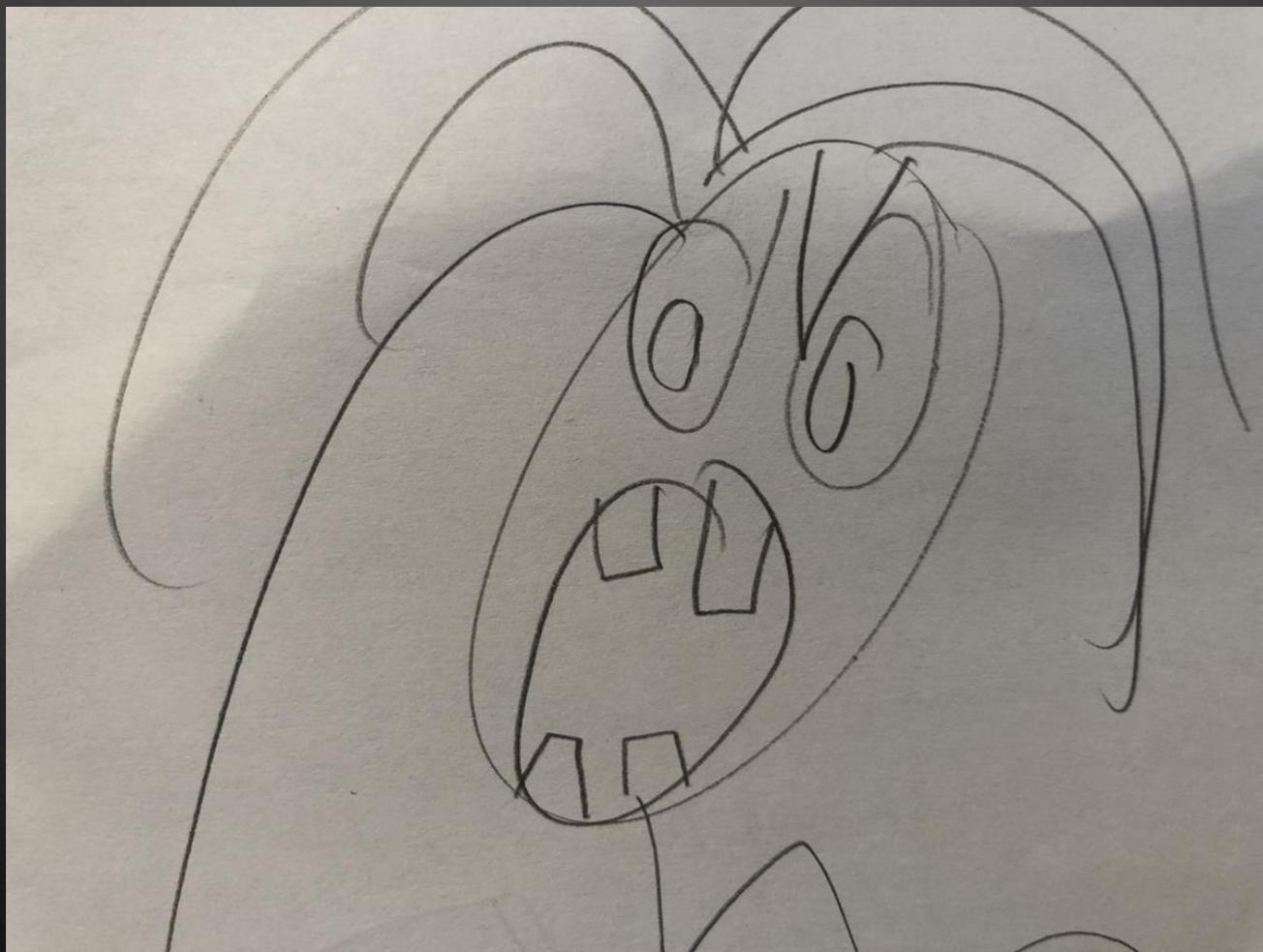
INFORMED DECISION MAKING PROCESS



mom
doing
papers

white
work





MOM →



REGISTRATION

IN PERSON	VIRTUAL EVENT
Reduced registration fee if at FWA Reduced number of teams allowed	Reduced registration fee Increased number of teams allowed

LOGISTICS

IN PERSON	VIRTUAL EVENT
<p>Free facility use at FWA</p> <p>No team housing- they will be responsible for their own hotel</p> <p>Teams remain in their own cohort at all times</p> <p>2-day event</p>	<p>Teams compete from their own school</p> <p>Test can be on paper or online**</p> <p>Advisors will attend a virtual training session</p> <p>1-week event</p>

FIELD TEST

IN PERSON	VIRTUAL EVENT
<p>One station per team Equipment is not shared between teams</p>	<p>Test kit is delivered to teams and remains unopened until the test Questions are designed around equipment being sent Team training online One volunteer proctor per team to observe during the test (or trained teacher) Option of 2-days to complete the test (but abide by schedule)</p>

ORALS

IN PERSON	VIRTUAL EVENT
<p>As per usual</p>	<p>Question given to teams 2.5 hours before scheduled presentation time on Zoom/Teams (2 hrs to prep, 1/2 hr break) Volunteer judges over Zoom Option of 2-days to complete orals (but abide by schedule) Team training online</p>

CELEBRATION

IN PERSON

All teams create an intro video,
posted on a secure site

Teams send trading post items to
MFA a month ahead of the event,
MFA sanitizes and divides into take-
home bags

VIRTUAL EVENT

All teams create an intro video,
videos are posted on a secure site
Create a team trading post video:
trade fun facts, pics. Fun team quiz
after.

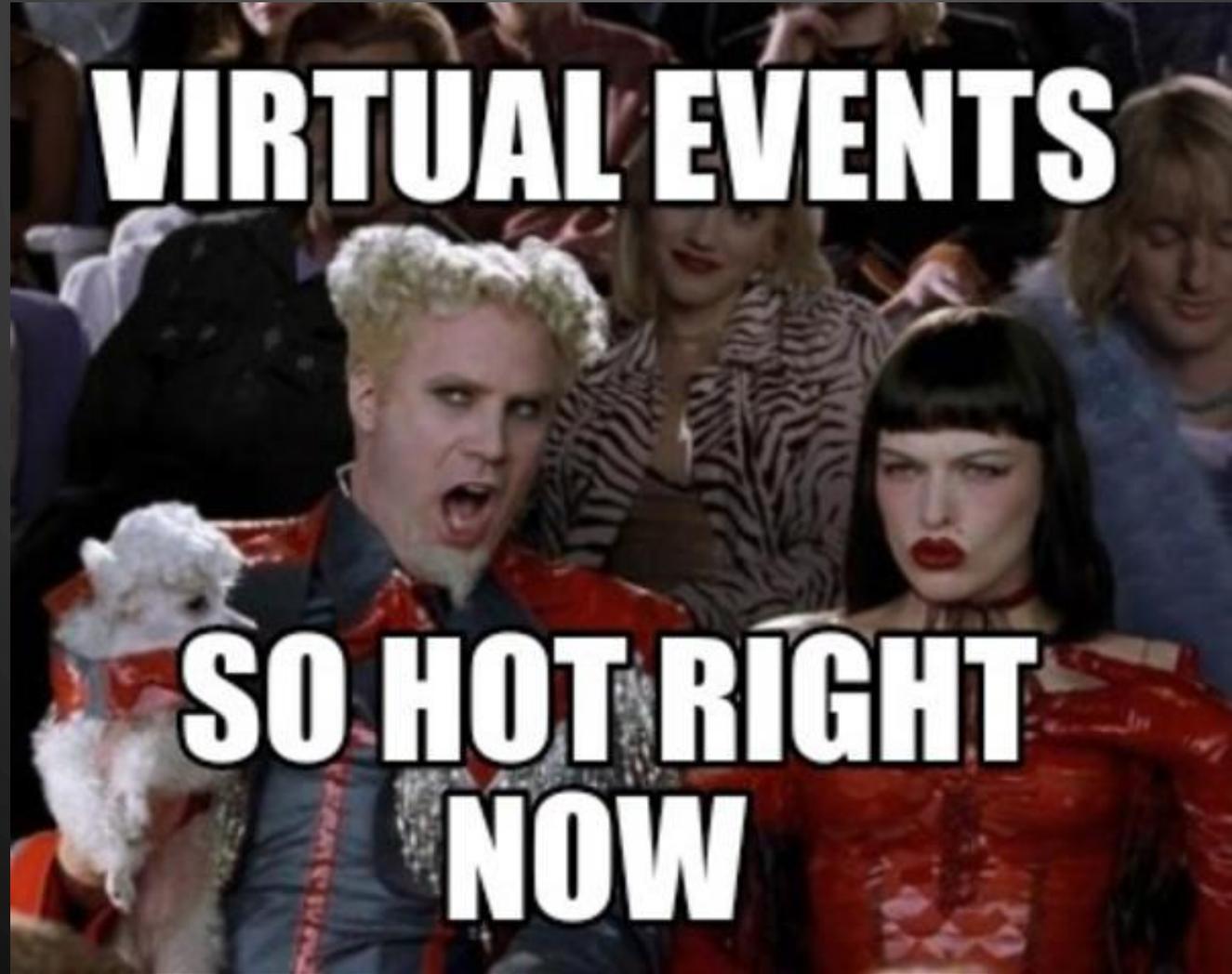
Livestream event finale
Send all teams celebration items to
be opened after the event

MAJOR EXPENSES

IN PERSON FWA	VIRTUAL EVENT
<p>Venue: \$0</p> <p>Food: two lunches, snacks</p> <p>Equipment: according to test</p> <p>Insurance: as per usual</p> <p>Other: t-shirts,</p>	<p>Venue: none</p> <p>Food: none</p> <p>Equipment: according to test</p> <p>Insurance: no longer needed??</p> <p>Other: t-shirts, online platform,</p>

QUESTIONS

IN PERSON	VIRTUAL EVENT
<p>Location?</p> <p>Regionals and Provincials?</p> <p>Prizes for winner?</p> <p>Needs with FWA</p>	<p>Regionals & Provincials?</p> <p>Complimentary middle years event?</p> <p>Prizes for winner?</p> <p>Needs with FWA</p>



VIRTUAL EVENTS

**SO HOT RIGHT
NOW**

REGISTRATION

VIRTUAL EVENT

Reduced registration fee

Increased number of teams allowed

Early registration to accommodate a variety of participation situations:

Team of 5 in a cohort

Team of 5 physically separated

Individual participants

Off-line participants

REGISTRATION

Calculation of Fees

Looked at registration from a per-participant perspective:

Hands-On Kit: \$20

Celebration Items: \$20

Mailing: \$10

Platform: \$10

$\$60 \text{ per person} \times 5 = \$300 \text{ Team Registration}$

LOGISTICS

Content

Content and outcomes are greatly reduced

Focus is on hands-on activities and higher-order thinking

Questions are designed around equipment being sent

LOGISTICS

Competing

Teams compete from their own school or home

Test can be on paper or online (need to choose platform)

Advisors will attend a virtual training session

1-week event to accommodate proctors and judging

LOGISTICS

Test Day

Test kit is delivered to teams and remains unopened until the test

Team training online

One volunteer proctor per team to observe and/or be the point of contact during the test (or trained teacher)

Option of 2-days to complete the test (but must abide by given time slot)

LOGISTICS

Orals

Team training online

Question given to teams 2.5 hours before scheduled presentation time on Zoom/Teams (2 hrs to prep, 1/2 hr break)

Volunteer judges over Zoom

Option of 2-days to complete orals (but abide by schedule)

PARTICIPATION OPTIONS

	Training	Field Test	Orals
Teams Physically Separated	Members train individually but collaborate via phone or video.	Each member is sent a theme kit and full test at a set time.	Question given 2 ½ hours ahead of set time. Teams appoint one 'creator' of presentation and present as a team.
Individual Participation	Reduced amount of content: focus on 2 theme areas only.	Participants are sent kit and test at a set time.	Adapted question given 2 ½ hours ahead of set time. Individual presentation.

PARTICIPATION OPTIONS

	Training	Field Test	Orals
Off-Line Participation	Send USB with all training needs	Send kit with paper test. Teacher gives kit and test at set time. Test is given to teacher to scan and submit.	Question given and judged via telephone.
Middle Years Program	Reduced amount of content in all 5 areas. Short, specialized training.	Focus is on hands-on kit-based items. All members sent the same kit and can work individual or as a team .	Question given one hour ahead of set judging time. Focus is on conversation rather than presentation.

EXPENSES

Cost Savings

Venue: none

Food: none

Insurance: no longer needed??

EXPENSES

Major Expenses

Hands-On Equipment Packages

T-Shirts

Online Platform (Chatter High?)

Mailing Costs

CELEBRATION

VIRTUAL EVENT

All teams create an intro video, videos are posted on a secure site

Create a team trading post video: trade fun facts, pics.

Participate in fun team quiz

Livestream event finale

Send all teams celebration items to be opened after the event

QUESTIONS

VIRTUAL EVENT

Prizes for winners? Categories based on participation needs?

Needs with Enviro partners: hosting set questions, virtual training sites

Training for question writers and steering committee on Distance Ed best practices

Specialized teacher training on virtual event

PLAN OF ACTION

1. CREATE EVENT PROMO AND REGISTRATION INCLUDING LOGISTICS OF PARTICIPATION OPTIONS AND Q&A SECTION
2. DISTANCE ED TRAINING FOR STEERING COMMITTEE AND TEST WRITERS
3. REVIEW CURRENT CONTENT AND REDUCE
4. HOST TEACHER TRAINING SESSION

PLAN OF ACTION

5. SECURE ONLINE PLATFORM FOR FIELD TEST AND ORALS
6. REVIEW TEST QUESTIONS AND EDIT AS A DISTANCE ED TEAM
7. CREATE PARTICIPATION SCHEDULE WITH JUDGES AND VOLUNTEERS
8. PURCHASE AND ORGANIZE ITEMS FOR CELEBRATIONS AND TEST KITS, SEND OUT

FSD SPOOKTACULAR!!

• FRIDAY, OCTOBER 30, 2020

• HALLOWEEN YOGA! 10:30-11:15AM CENTRAL

• SCIENCE SPOOKTACULAR! 1:00 – 2:00PM
CENTRAL

• REGISTER HERE:

• [HTTPS://PERMISSION.CLICK/DEXP9/CA](https://permission.click/dexp9/ca)



Join us for a
SPOOKTACULAR
event on Friday, October 30!

Spooky Scientists Arif & Jacqueline
will be streaming LIVE right to your classroom.
Get your costumes and candy ready!
This is an interactive event for Kindergarten - Grade 12.

Time: 1:00 p.m.
Platform: Youtube
Registration: <https://permission.click/dexp9/ca>

What is the radius of a pumpkin?
It's of course!

Why did the skeleton cross the road?
To get to the body shop!

What do spook scientists use to freshen their breath?
Bepo-mints!

CONTACT JACQUELINE

KINDERGARTEN – GRADE 12 SCIENCE

DISTANCE EDUCATION

SCHOOL PLANS OF ACTION

TRAINING ON OUTREACH AND VIRTUAL EVENTS

OUT OF THE BOX THINKING

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