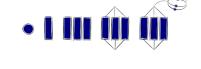


# Going SOLO

Using SOLO Taxonomy to support student learning in PE and Health

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# What is SOLO Taxonomy?

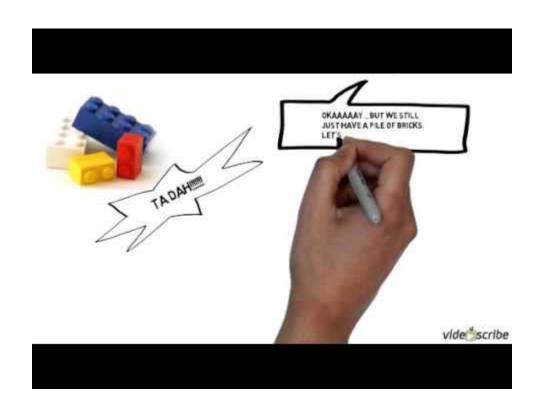
**S**tructure of **O**bserved **L**earning **O**utcomes

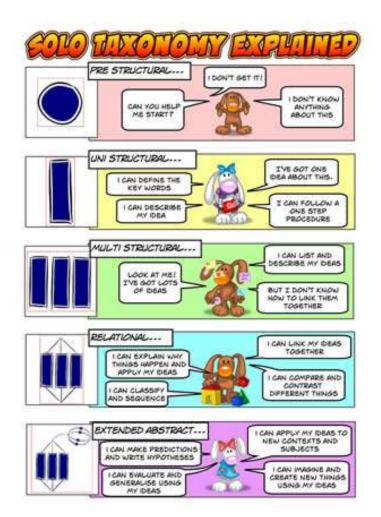
#### Which means what exactly?

SOLO is a model that describes levels of increasing complexity in a student's understanding of subjects.

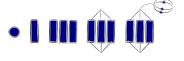


# Lets look at an example...



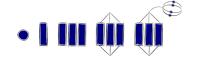


### 5 levels



Pre-Structural
Uni Structural
Multi Structural
Relational
Extended Abstract





### **WHY?** I failed my SLO!

"90% of the students in Fitness for Life who did not know more than 3 health-related component of fitness, and who were in attendance at school for at least 90% of quarter 2, will be able to:

- 1. Identify 4/5 health-related components of fitness
- 2. Name 2 or more specific activities that address 4/5 health-related components of fitness
- 3. Apply the FITT principle to 2 or more specific activities that address 4/5 health-related components of fitness by the end of the semester in January 2015. "



### From teacher centered to student centered

Emphasis in SOLO is for students to self- assess level of understanding/ performance

Must be able to justify where they are on learning continuum

Focus is on self-improvement: What should <u>I</u> do next?

#### It is OK to know nothing!

Easy to see progress = motivation



### How it all started

- Introduced during a weight training unit
- Explained the concept of the levels provided visual map of the levels
- Emphasised this was NEW for everyone it was an experiment!
- Created a <u>rubric</u> for each GLO targeted
- Student self-assessed with date entered at level within each rubric



# How it progressed

Students re-assessed themselves during the unit Started to ask more questions to move themselves up to the next level

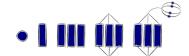
Enabled me to target students by level Verbal justification during class periods Quick written assessments 2nd semester - started on Day 1



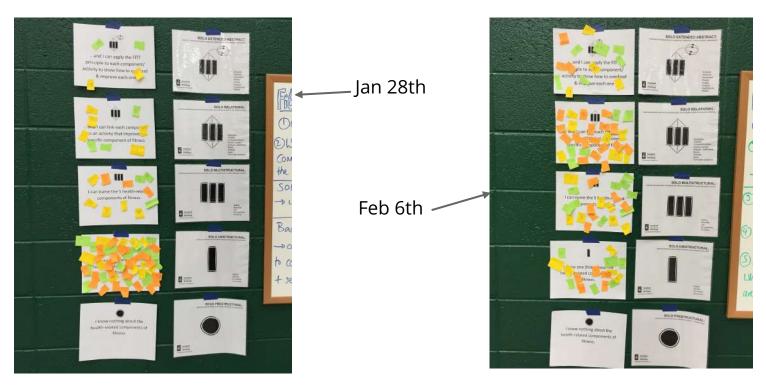
### SOLO learning statements



I know nothing about the health-related components of fitness.



# A picture is worth a 1000 words



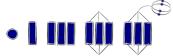


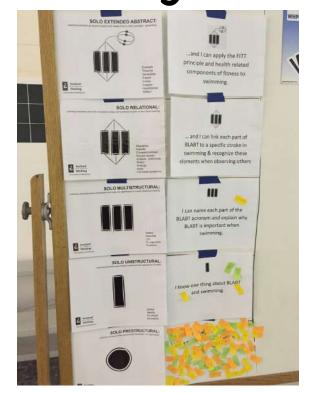
### SOLO learning statements



I know nothing about BLABT and swimming.

Swimming and SOLO

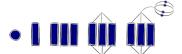








Feb 27th March 12th March 24th

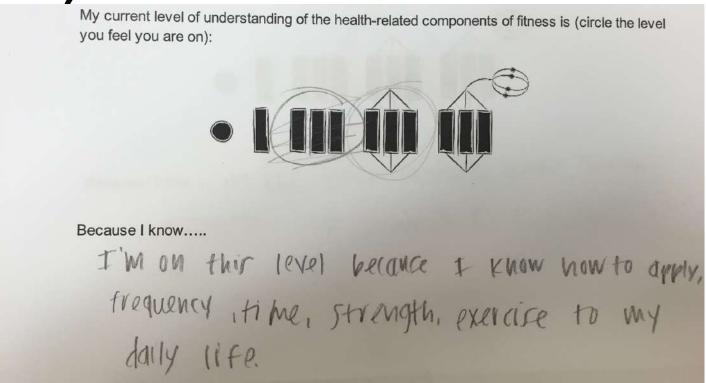


# The Magic of Post its

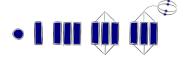
Created clear statements for the learning targets Students were given post-it note Students put initials on post-it and placed it where they felt they were on the taxonomy Use different colours for different classes Take pictures of beginning, during, end - great visual Students moved post-it up when they had justified why they belonged at a new level

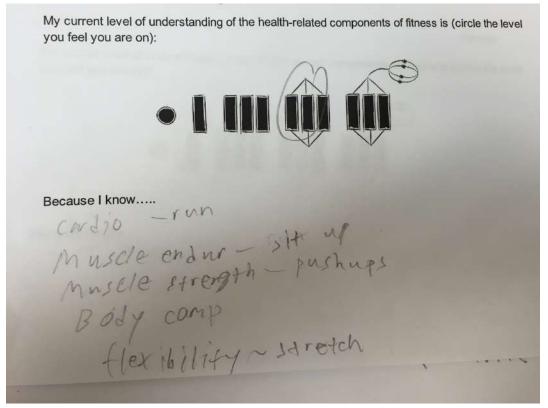
### Justify...



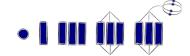








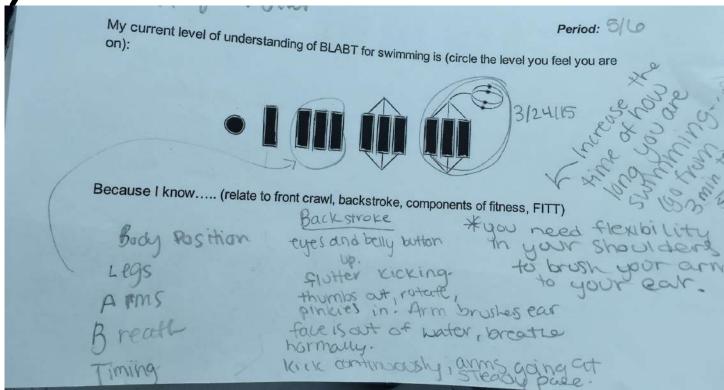
Justify...



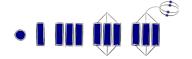
Period: 5 My current level of understanding of BLABT for swimming is (circle the level you feel you are Can you apply Fitt and a MRCOF to suimming. T- Try diff. strokes Because I know..... (relate to front crawl, backstroke, components of fitness, FITT) T- Swimming Longer Balance - leep you up in backshoke Length Arms - Front crawl Body - Face down Nice! Legs-Flutter Kick F- Frequency Arms - Brush side of ear I - Intensity
Breathing T Breathing Technique Breathing - To the side T- Type Timing . Continus Cycle

Justify...





### Lets Practice...



Use the <u>template</u> to create learning statements for one topic/ unit/ concept

Think about how you can measure progress for each statement (could be multiple ways)

#### <u>Ideas</u>

Cardiovascular fitness

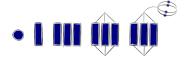
Nutrition/ Food groups

Net/ wall games

Invasion games - offensive/ defensive skills







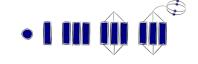
Write key words on a topic on each hexagon Link related hexagon's together - must be able to justify link

Can provide key word(s) to get started Laminate hexagons for easy reuse with whiteboard markers

Use hexagon map to help answer posted questions

#### Lets Practice...

# HOT Maps - Hooked on Thinking

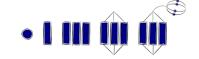


Graphic organizers which take the student from one level to another

Sample templates available for download <u>here</u>

Google Draw is an excellent tool for creating your own graphic organizers

### I am at the top.... now what?



If students have mastered the concept/ skill/ idea, let them continue to explore - what do they want to learn?

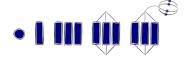
Create bank of ideas/ challenges to keep students moving forward for each level

If students are struggling at the multi structural stage, what supports can you put into place?

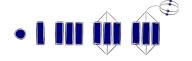
Emphasise that is OK wherever you are - goal is get to proficiency eventually

# SOLO Taxonomy Hand Signals





# Don't just take my word for it...



"Yes it helped me see if i truly understood what Mrs. Bailey was teaching us."

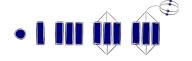
"yeah here and there, they were easy to see where I was in the learning process, if I should get help or if I am okay."

"Yes this did help me a lot because it was easier to understand where to put every piece of what topic goes with what. What I mean is that it was easier to add how a certain component of fitness could be used in daily life. So much easier."

"Yes it made me look at the whole picture, and to the origin of why we are doing this. That it wasn't all about learning the game it was why I should play and what health benefit is was to me other than the fun of it."

"It was good to see what an "A" understanding was so that you sould see where improvement was necessary and propers for

# Don't just take my word for it...



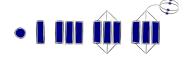
"Yes, it helped me. From the beginning, I didn't know much about any health components and how to blend them in with daily life activities."

"Yes the diagrams were helpful to me because they specifically organized where you felt your knowledge was of the activity. By the end of each unit I felt confident of where my level of understanding of the basic rules was and if I could go beyond the rules and apply it to where it fit in exercise and how it worked different muscles in the body."

"I really thought this was helpful. It allowed me to be independent with my learning and more self directed. Because of the independent quality of this grading system, it was easier to see what I was good at and what I needed to improve on."

"Yes, I found the SOLO Taxonomy helpful. It helped me see where I was at, and what things I needed to improve on."

# Don't just take my word for it...

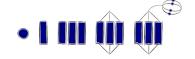


"Yes. Its been scientifically proven people retain things better and understand more with visual cues and pictures."

"SOLO Taxonomy was especially helpful. Each stage had clear characteristics, and it was easy to determine which stage I was at throughout the learning process."

But...

### ...Not everyone had positive things to say:



"i hated it"

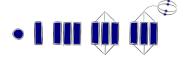
"I don't even know what that is. "

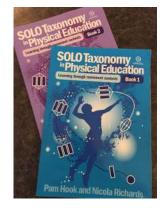
"i understood the charts and all but it wasn't my most favorite."

"I didn't find it useful for me."

"what does taxonomy mean?"

### Resources





Solo Taxonomy in Physical Education Bk 1

Solo Taxonomy in Physical Education Bk 2

<u>Pam Hook - SOLO Taxonomy website</u> - tons of templates you can download and customize <u>SOLO Taxonomy Pinterest board</u> - lots of examples from around the world <u>SOLO Taxonomy Prezi</u> by Nicola Richards <u>Pedagoo SOLO posts</u> - blog posts relating to SOLO; lots of great examples <u>Hexagons and SOLO</u> - example from the classroom