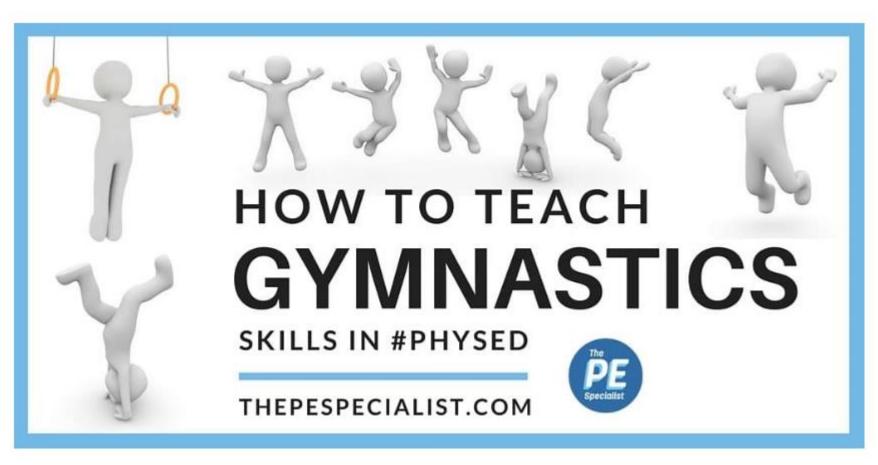
GYMNASTIC AND COMPUTATION THINKING

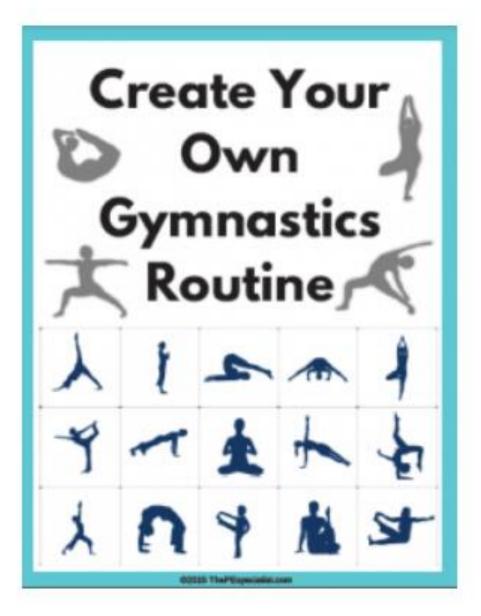


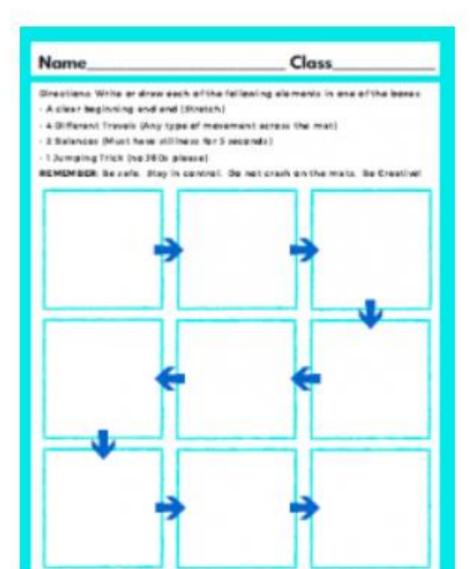
CREATE A ROUTINE

- Review Travels, Balances & Jumping and Landing
- Have students come up with a Sequence or Routine combining all the elements they have learned
- Perform the Sequence after giving students time to practice

競技體操-自由體操

- 開始動作及結尾動作
- 平衡類-燕式平衡、側平衡
- 跳類-直跳、蹲腿跳、分腿跳、貓跳
- 轉體類-180度、360度、720度
- 滾翻-前滾翻、後滾翻、側滾翻
- 難度動作-側手翻、前手翻、後軟翻
- 舞蹈-自由動作

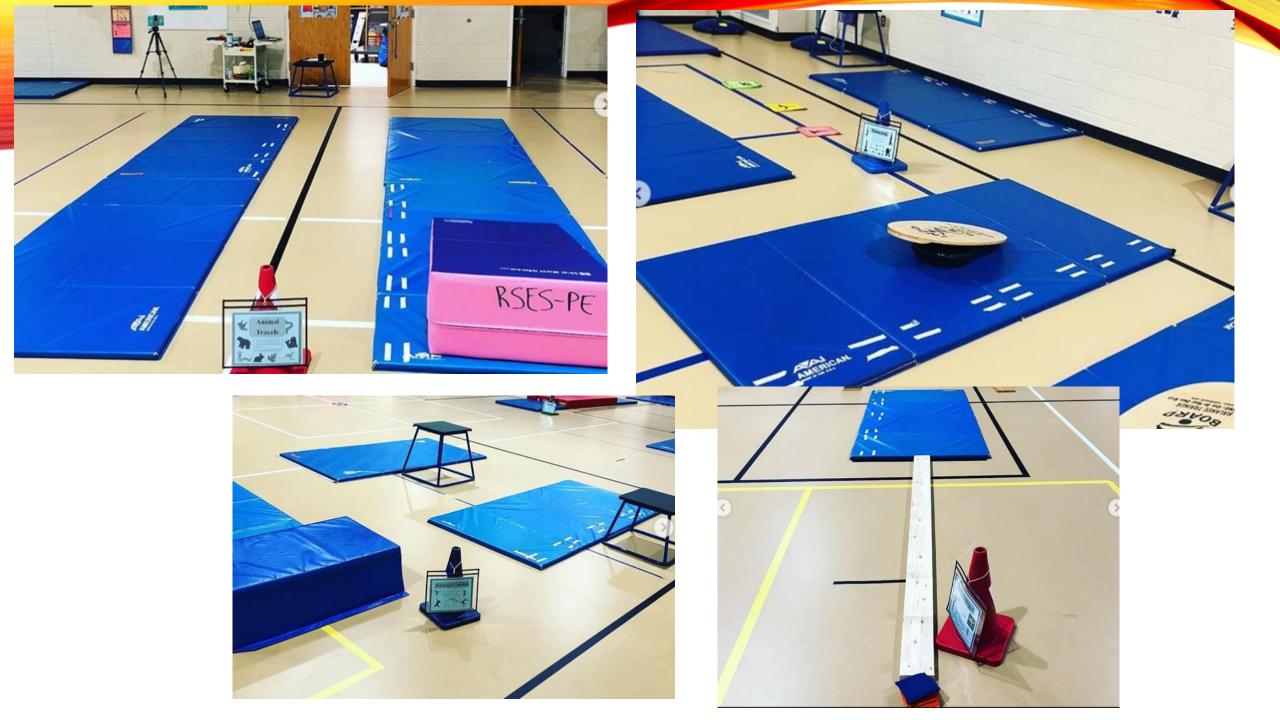






GYMNASTICS STATIONS

- Station Ideas (<u>setup examples</u>)
 - Rolling
 - Animal Travels
 - Jumping and Landing
 - Balancing Challenges
 - Partner Balances
 - Balance Beams
 - Cartwheels/Roundoffs
 - Rope Climb
 - Rope Swing
 - Rock Wall
 - Exercise Station
 - Rings or Bars if you have them
 - Create a sequence



WHAT IS A PRE PERFORMANCE ROUTINE?

- A pre performance routine is defined as 'sequence of task relevant thoughts and actions which an athletes engages in systematically prior to his or her performance of a specific sport skill' (Moran 1996, p177). As this definition highlights there are three components to a pre performance routine: cognitions (thoughts), behaviours (actions) and task specific / systematic.
- This is employed prior to a skill, often used in closed self-paced skills (Singer, 2000; Cohn, 1990; Cotterill, 2010) i.e. gymnastic performance, basketball free throw shooting or golf putting. A closed skill is one performed in a stable and predicable environment with a clear defined beginning and end (Schmidt, 1991).

WHAT IS THE PURPOSE OF A PRE PERFORMANCE ROUTINE?

- The purpose of a pre performance routine is to provide you with:
- The optimal mind-set to achieve the desire outcome
- Assist the neuromuscular pathways
- Assist in schema development or maintenance

Optimally a pre performance routine is a tool to **enable** you to achieve your best on a consistent basis.

WARM UPS - CODING GAMES



https://studio.code.org/s/sports/stage/1/puzzle/1



WARM UPS – GYMNASTICS SKILLS

課堂安排:↩

- 1· 先讓學生重溫一些簡單的體操動作,如頭手倒立、前滾翻、後滾翻等。√
- 2·讓學生完成工作紙一,更深入了解體育文憑課程內···活動平面的 分析,如矢狀切面、額狀切面、橫狀切面、矢狀軸、橫軸和縱 軸。↩
- 3. 播放短片,讓學生了解何謂- -- 編程。↓
- 4. 進入活動二. -- 體育編程活動。↓

題目:- 動作分析與體育編程(Unplugged-Coding)結合。

	錘.	名:							+
--	----	----	--	--	--	--	--	--	---

利用以下的活動平面分類名詞,完成下表。。 (大狀切面、<u>額狀切面、横狀切面、大狀軸</u>、横軸和縱軸)。

.1	.1	軸ュ	直ュ	٦,
	。 局胛倒立。 Shoulder-stand。	л	ā	
HOW TO DO A FULL TURN	360 度全轉。 Full-Turn。	.1	.7	
Para	前读期 。 Forward-Roll。	л	.a	-
<u> </u>	即手翻。 Cartwheel。	л	ā	-
a a	。 ····································	л	л	
	手倒立。 Handstand。	ā	.1	
7	 热式平衡 Swallow-balance	л	ā	
	。 後浪動 。 Backward-Roll。	J	a	-

🚃 編寫你獨有的程式。』

第

組

開始位置

- 1.→ 先貼上你們的起點(START)貼紙,然後在對岸貼上終點(HOME)貼紙。。
- 2.→ 在起點(START)與起點(START)之間設計一條路徑,當中必須經過早已由*五個* 老師設定的站(則操場上的<u>線色地墊</u>)。。
- 3.→ 在方格紙上記上老師安排的站的位置。』
- 4.→到站後,必須在墊上完成一個體操動作。』
- 5.→過程中必須與組員一起設計路徑,而到最後展示階段,則必須分工,一個同學擔任機械人(接受指令),另一同學必須以朗讀方式指令機械人完成整個路徑,個動作的總分必然最少達到 9.4%。

············· 第一組開始的位置············ 第二組開始的位置

第五組開始位置

PLAN YOUR OWN ROUTINES

活動二使用的 CODE.

No:1.	No:2a	NO:3.	No:4.1
Forward.1	Turn-Left.	Backward.	Turn-Right.
л	л	.1	.1
NO:5.a	NO:6.1	a a a	al al
л	а	л	а
NO:7.1	78 18 NO:8.	NO:9.	**
🜙 🧎 1mark.	2-marks	2-marks.	NO:10.
Shoulder-stand.	Full-Turn.	Forward-Roll.	3-marks.
a			- Cartwheel.
л	л	л	л
NO:12.a a 3-marks.a	No:13	NO:14.	NO:15:
Headstand.1	Handstand:	- Swallow balance.	2-Backward-Roll.
л	a	л	а
?•marks • NO:16	а	а	ā

活動三。寫出你的編程數字。

at		
al .		
al.		
at		
A		

PLAN YOUR OWN ROUTINES

第一組開始的位置 第二組開始的位置 3 marks Turn Right Cartwheel **Full Turn** 五 Forward 組 NO:14 始 Swallow balance Forward 2 marks Forward Roll

PLAN YOUR OWN ROUTINES

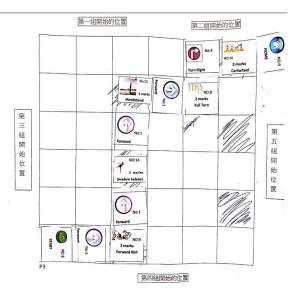
第三組開始位

置

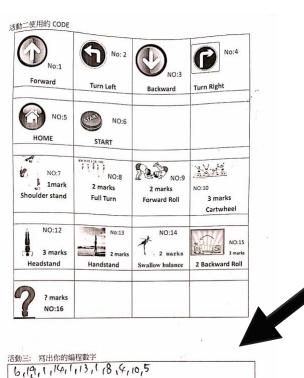
(STUDENTS ARE THE PHYSICAL ROBOT!)



Active engagement



Computation thinking sequence



Schema construction

REFLECTIONS: THE ADOPTION OF CODING ELEMENTS TO PE

- Increase the opportunity of students practising gymnastics
- Motivation
- Creativity
- Fun
- •