MYCI 2013-14

Middle Years
Collaborative Inquiry

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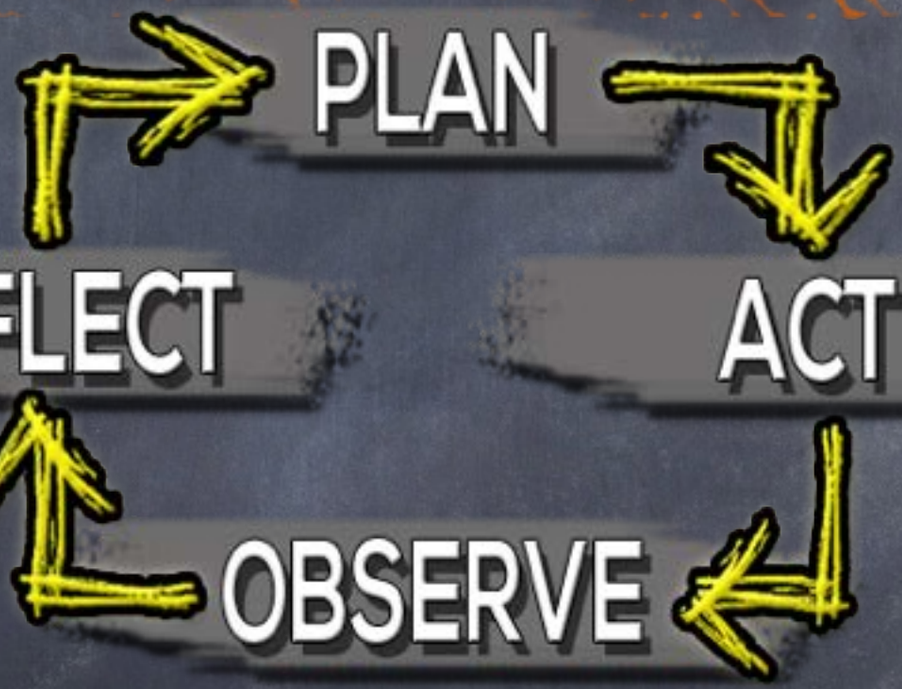


MATHEMATICS

SESSION #4

@MathletePearce www.tapintoteenminds.com @JustinLevack

Agenda

- Sign-in
- Analyze Cycle 1 & 2 Data
- Submit Cycle 1 & 2 Data
- Celebrate MYCI Boardwide Successes
- Planning for Cycle #3 / Team Prompts
- More Connections from Grade 7-10
- Ticket Out The Door

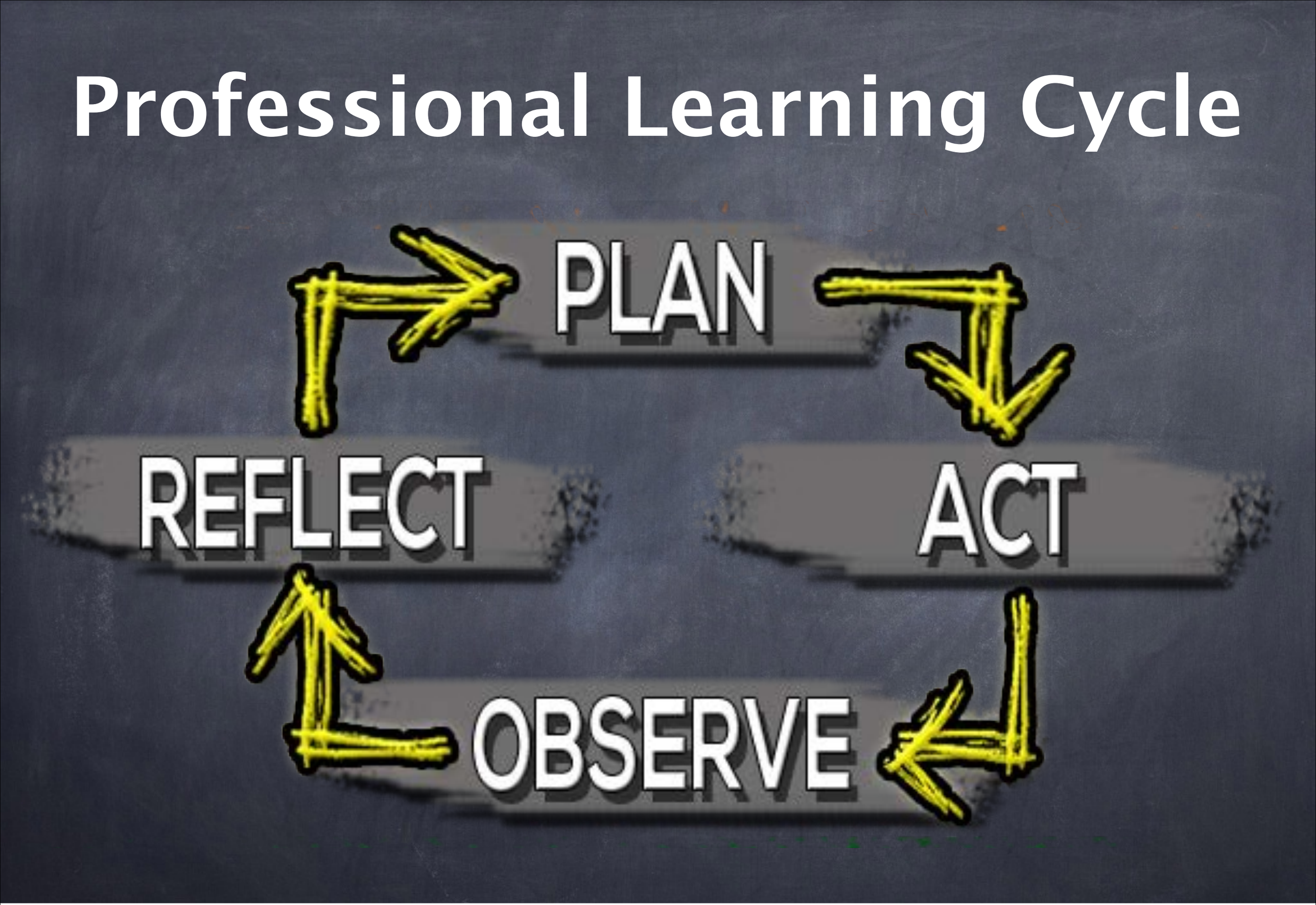
MYCI Dates

- Walkerville FOS

1/2 Day, In-School Adobe Connect

Full Day, Learning Fair
Ciociaro Club

Professional Learning Cycle



Calendars + Day Week Month Year

Cloud
alendar.google.com
ublicBoard.ca
mail
Delegates

February-2014 ◄ Today ►

16 17 18 19 20 21 22

CYCLE #3

2 24 25 26 27 1

March-2014

2 3 4 5 6 7 8

FEB 17 - MAR 28

10 11 12 13 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

◄ October-2013 ►

Su	Mo	Tu	We	Th	Fr	Sa
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26

Calendar

Calendars + | Day | Week | Month | Year

iCloud
calendar.google.com
PublicBoard.ca
Gmail
Delegates

April-2014

◄ Today ►

Sun 30	Mon 31	Tue 1	Wed 2	Thu 3	Fri 4	Sat 5
		8	9			12
13	14	15	16	17	18	19
		22			25	26
27	28	29	30	1	2	3

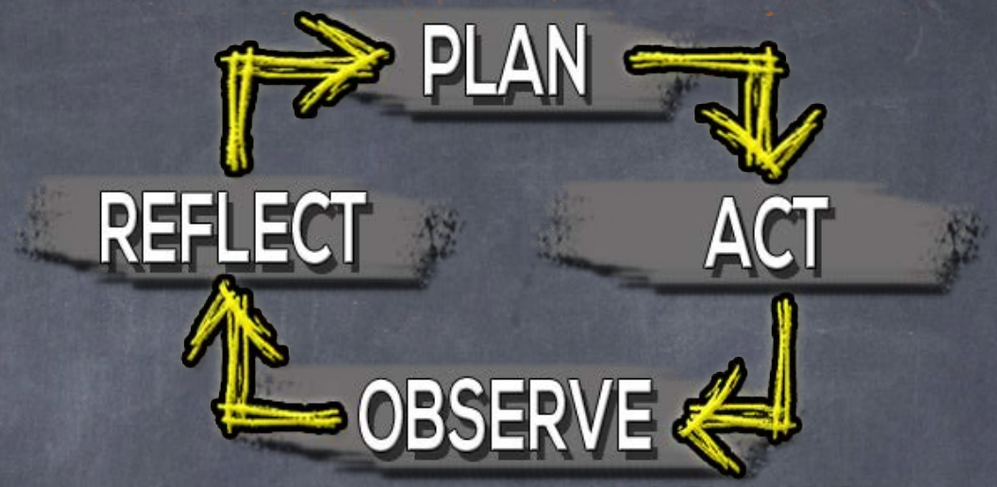
CYCLE #4

MAR 31 - MAY 2

◄ October-2013 ►

Su	Mo	Tu	We	Th	Fr	Sa
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

Cycle Timeline



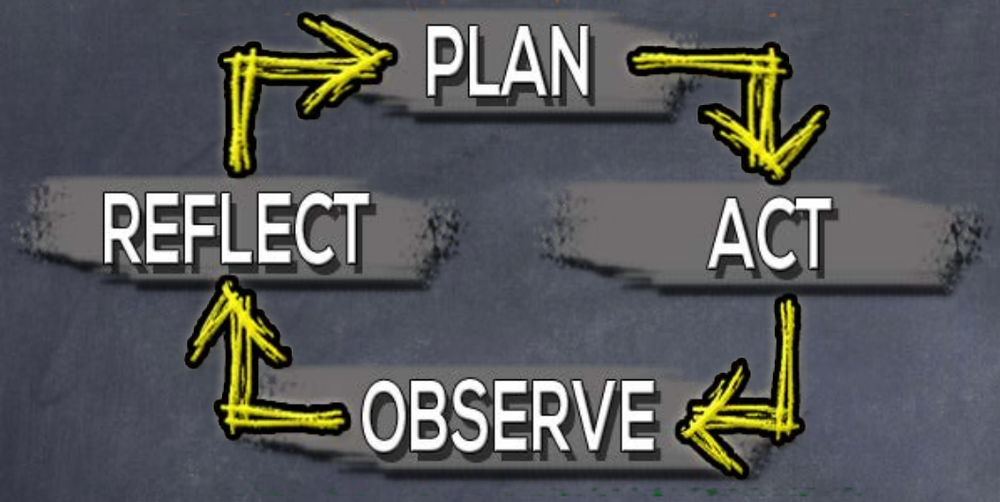
- **Week 1** – Working Levels Based on Rubrics
- **Week 2** – Marker Student Evidence and implement specific change in practice
- **Weeks 3 & 4** – Continue change in practice
- **Week 5** – Working Levels Based on Rubrics
- **Week 6** – Collect Marker Student Evidence

Sample Rubrics

MYCI – Rubric – Student Learning Need – COMMUNICATION

Cycle 1: Week 1: Student Name _____

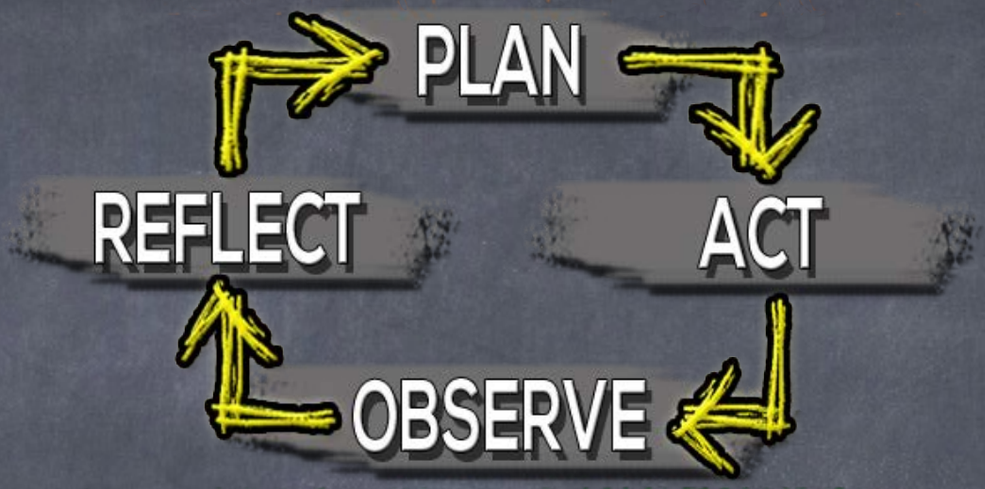
Criteria	Level 1	Level 2	Level 3	Level 4
Refers to question when answering	Student rarely uses question to guide communication of answer	Student seldom uses question to guide communication of answer	Student uses question to guide communication of answer adequately	Student uses question to guide communication of answer very well
Use of prior knowledge	Student communicates prior knowledge use to answer question poorly	Student communicates prior knowledge use to answer question with limited effectiveness	Student communicates prior knowledge use to answer question adequately	Student communicates prior knowledge use to answer question very well
Organization of thoughts	Student communicates ideas with little to no organization	Student communicates ideas with some organization	Student communicates ideas with adequate organization	Student communicates ideas very well organized ideas.



Evidence

- Collect evidence from marker students and beginning and end of each cycle.
- Assessing through lens of your team **specific student learning need**.

Reflect



During Cycle #2:

- What worked?
- What didn't?
- What will you change next cycle?

Baby Beats

Rates of Change in the Body

Baby Beats

Watch the video clip.

Consider:

- How fast is the baby's heart beating?
- What is the ***slope*** or ***rate of change***?

Estimate:

_____ beats per 10 seconds?

_____ beats per 30 seconds?

_____ beats per 1 minute

Baby Beats

Baby Beats

Rates of Change in the Body

REAL WORLD MATH | WWW.TAPINTOTEENMINDS.COM

Baby Beats

Watch the video clip.

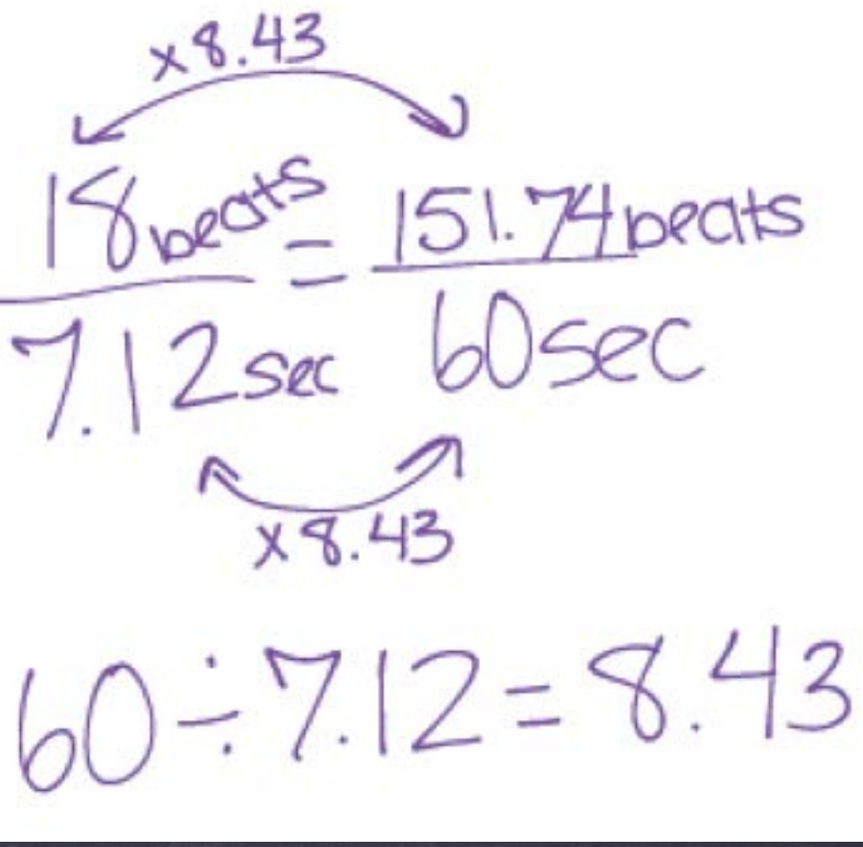
Consider:

- How fast is the baby's heart beating?
- What is the ***slope*** or ***rate of change***?

Estimate: |

10 beats per 10 seconds? 30 beats per 30 seconds?

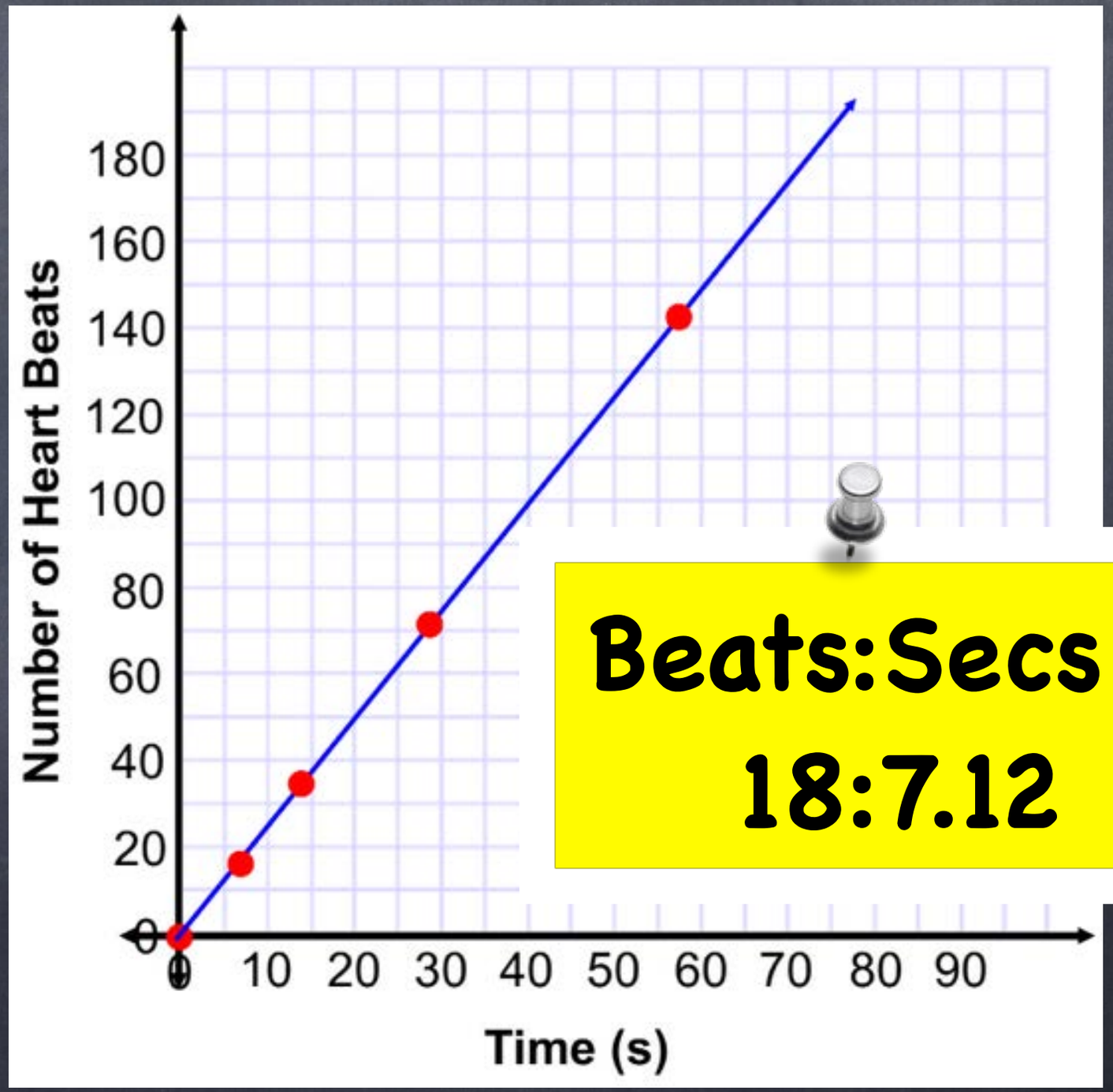
100 beats per 1 minute



Baby Beats

Baby Beats: The Connections

Time (s)	# of Beats
0	0
7.12	18
14.24	36
28.48	72
56.96	144



Baby Beats: The Connections

Time (s)	# of Beats
0	0
7.12	18
14.24	36
28.48	72
56.96	144

7.12 <-> 18

Beats:Secs
18:7.12

$$\frac{18 \text{ beats}}{7.12 \text{ sec.}} = \frac{2.528 \text{ beats}}{1 \text{ sec.}}$$

Rate of Change

Baby Beats: The Connections

Rate of Change

$$\frac{2.528 \text{ beats}}{1 \text{ sec.}} = \frac{252.8 \text{ beats}}{100 \text{ sec.}} = 252.8\%$$

"The baby's heart beats 252.8 times per 100 seconds, or 252.8% of the time."

Time (s)	# of Beats
0	0
7.12	18
14.24	36
28.48	72
56.96	144

7.12

18

Initial Value is 0

18 Beats

7.12 Sec.

$$B = \text{Initial Value} + \text{Rate of Change}\ t$$

$$B = \text{Initial Value} + \text{Rate of Change}\ t$$

$$B = 0 + 18\ 7.12\ t$$

$$B = 0 + 2.528\ t$$

"Starting at zero, the number of heart beats increase by 2.528 beats per 1 second."

Road Trip!

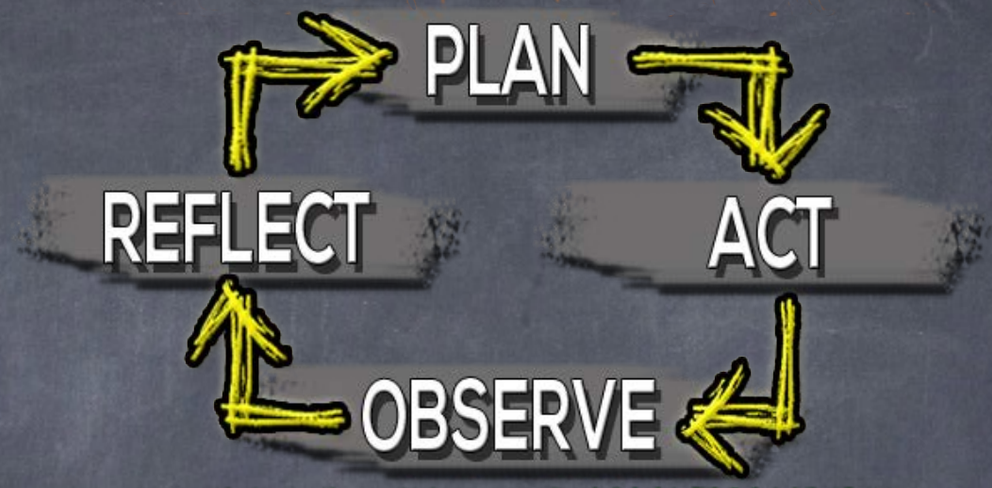
EQAO Assessment Grade 9 Applied 2012

Paul drives from home to his friend's house and then back home.

- The distance from Paul's home to his friend's house is about 720 km.
- On average Paul's car uses 6.8 L of gas for every 100 km.
- Gas costs 96.5 cents a litre.

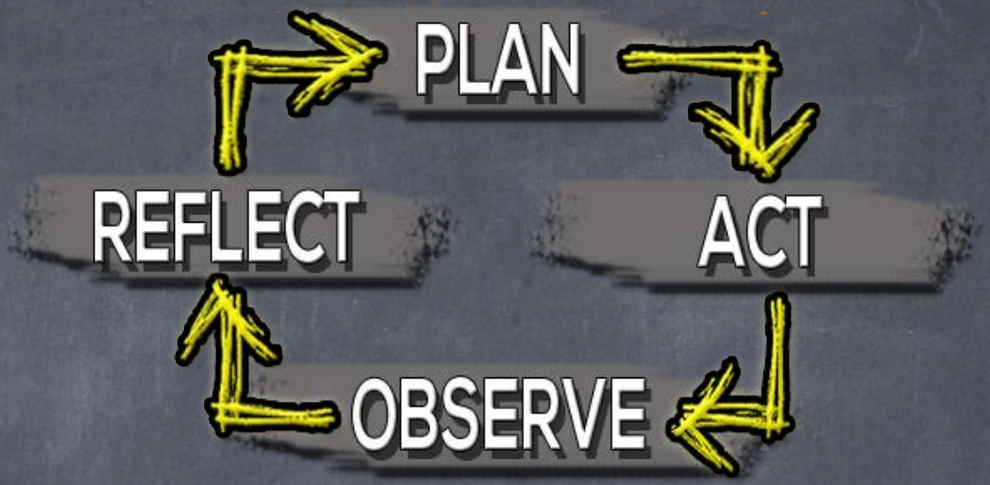
How much does Paul pay in total for gas to his friend's house and back home?
Show your work.

Team Prompts



- Check your Google Drive Team Folder for a folder called Session #4.
- Open the Google Doc called “Team Prompts – Session #4”
- Have an open discussion and collaborate while documenting your responses simultaneously in the Document.

Consider Cycle #2



- Did you follow through with your planned specific change in teaching practice?
- Did the change help address the student learning need? Why or why not?
- What data/evidence did you collect that indicated the effectiveness of the change in practice?

Exit Survey

- Slides from Session #4 Also Available

http://tapintoteenminds.com/myci/session4/

- ALL Team Members Should Complete the Exit Survey

Need Assistance?

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