





Practical ways to introduce and engage staff to QI

Ori Odugbesan and Laura Baker Boston Public Health Commission Ohio Public Health Improvement Exchange | Columbus, OH | November 19 - 20, 2019





The Boston Public Health Commission

Our Mission

To protect, preserve and promote the health and well-being of all Boston residents, particularly the most vulnerable.

BPHC PROUDLY SERVES ALL BOSTON RESIDENTS





7 Campuses



Recognized by NACCHO as a 2019 Model Practice for:

- 1. Use of games
- 2. Integrating health equity
- 3. Use of case studies
- 4. Innovative staff engagement
- 5. QI committee

Fun trainings and games are one of our key drivers of QI culture change!





Learning Objectives

- Explain how games can enhance learning of abstract concepts
- Facilitate educational quality improvement games within your own organization

Link to download materials: **<u>bit.ly/BPHC-games</u>**





Offer Regular Trainings

- ✤ 60 Minute New Hire Orientation
- 90 Minute Introduction to Quality Improvement
- Introduction to Performance Management
- ✤ 5-Session Quality Improvement Toolbox Series



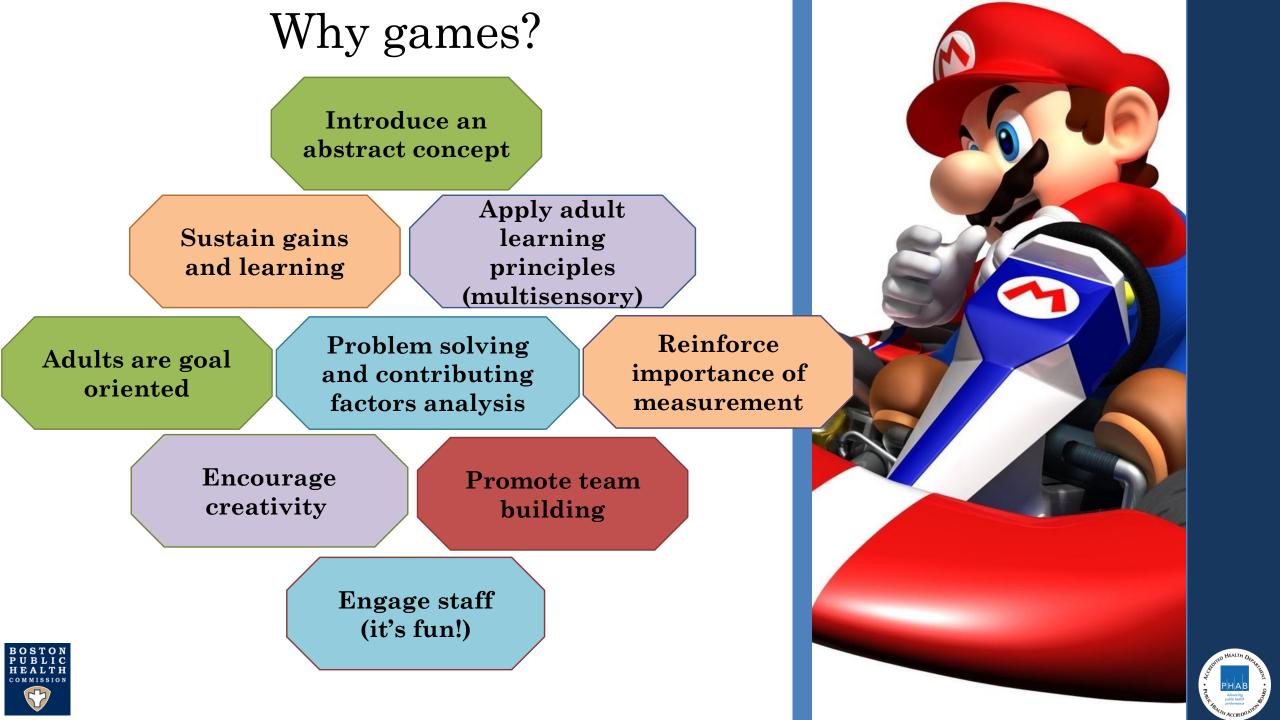


92%

said the training opportunities were **extremely or very valuable** to their work 82% definitely recommend Toolbox Series to a colleague







Some research

J Contin Educ Nurs. 1997 Sep-Oct;28(5):231-4.

Gaming: a teaching strategy to enhance adult learning.

Henry JM¹.

Author information

Wellesley Central Hospital, Toronto, Ontario, Canada.

Adult Education Research Conference

2009 Conference Proceedings (Chicago, IL)

New Territories in Adult Education: Game-based Learning for Adult Learners

Bryce O. Anderson University of Tennessee

Not just for children: game-based learning for older adults

Nathalie Charlier¹, Michela Ott², Bernd Remmele³, Nicola Whitton⁴

¹ Teacher training in health sciences education, KU Leuven, Leuven, Belgium ² Institute Educational Technology, National Research Council, Genova, Italy

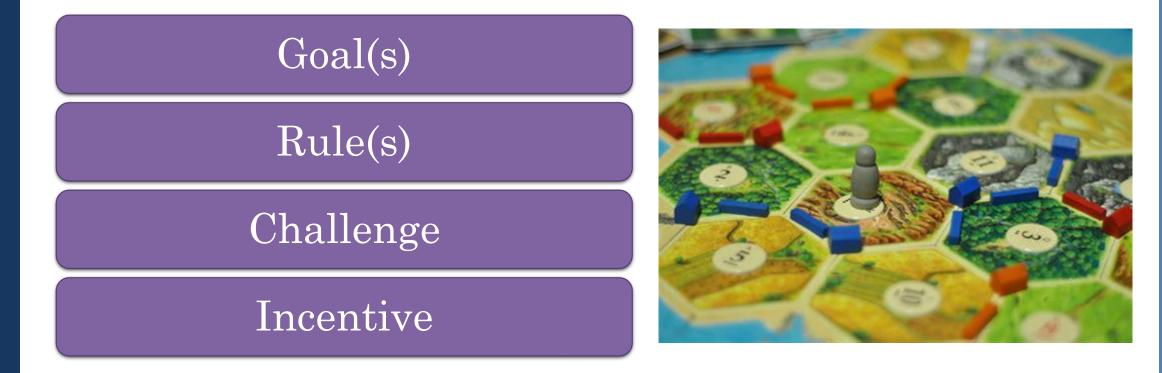
Business and Vocational Education, WHL Graduate School of Business and Economics, Lahr, Germany

Education and Social Research Institute, Manchester Metropolitan University, Manchester, UK





Components of any game

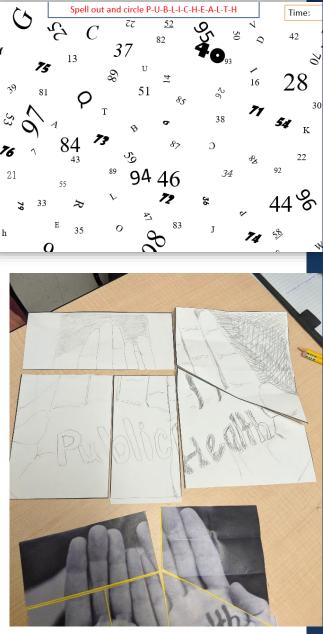


Games to make trainings engaging













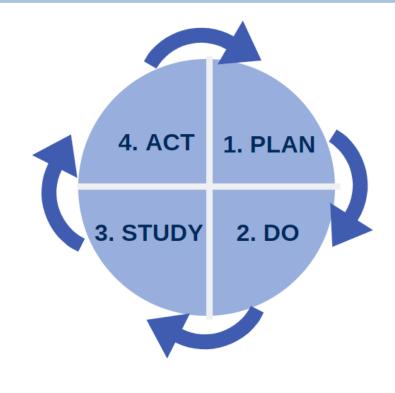
Games to teach the QI Model

QI is a deliberate *process* to continuously improve **Efficiency**, **Effectiveness** and **Equity** in a current process/system.

BPHC model: 10 step improvement process (Adapted from the Model for Improvement) AIM What are we trying to accomplish?

MEASURES How will we know that a change is an improvement?

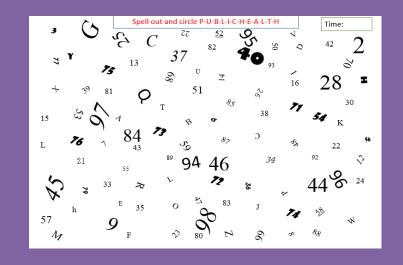
CHANGES What changes can we make that will lead to an improvement?





Games to Introduce QI

Game A: Finding Public Health



Game B: Building Healthy Communities













Finding Public Health Modification of the 5S Numbers Game

? WHAT: A game using a jumble of numbers and letters on a page to introduce staff to the impact of small changes

WHO: Played in teams of two; can be played in groups as big as 50 and larger





MATERIALS:

- Printed copies of Finding Public Health Game (x number of pairs)
- Pens
- Watch/timer
- Incentives (quickest time, bragging rights, prize)





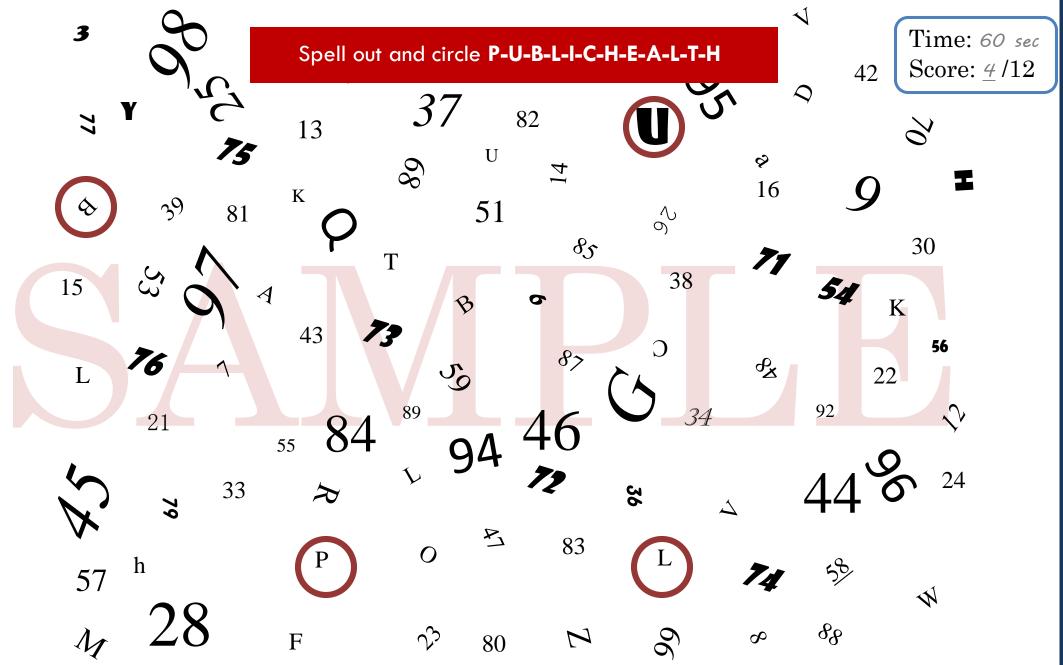
Goal: Find and spell the letters "PUBLIC HEALTH" in order and in the shortest amount of time



Rules:

Pairs	Find a partner! 😳
•	
Roles	Determine who is the Seeker and who is the Time Keeper
Find!	The Seeker finds and circles the letters in P-U-B-L-I-C-H-E-A-L-T-H in the right order and shortest amount of time
+	
Record	The Time Keeper will keep time and record results in the upper right hand corner
Repeat	Repeat for rounds 2, 3 and 4
Reflect	Facilitate discussion on moving through rounds and share lessons of the game









DO NOT FLIP THE PAGE!



PRESS START WHEN READY

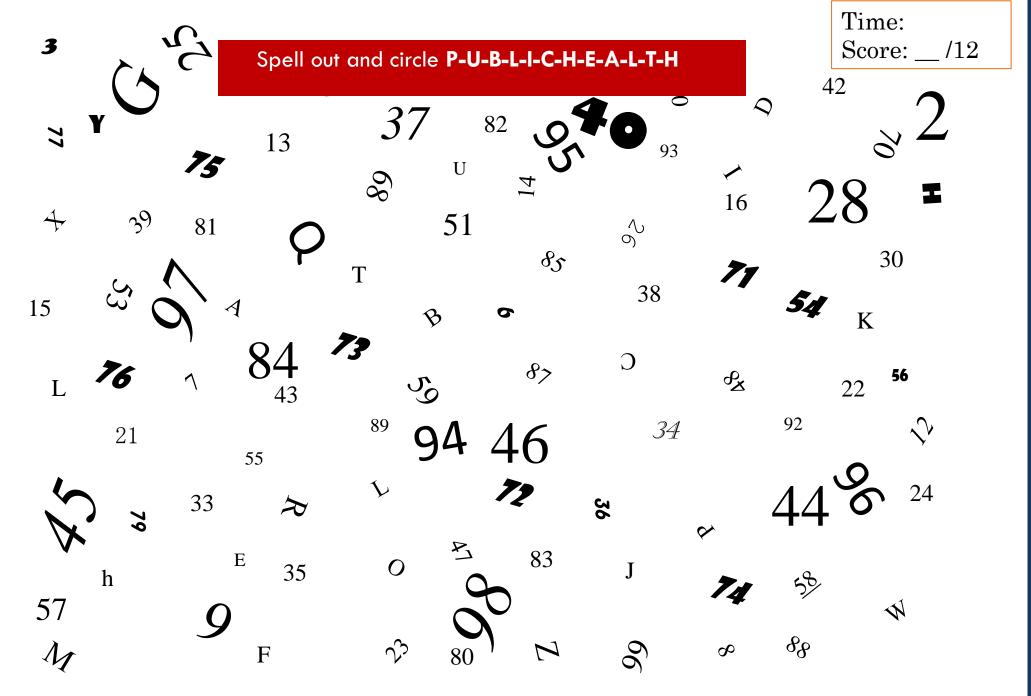
ROUND 1: Baseline

Do your "job" (find PUBLIC HEALTH!)



BPHC Accreditation and Quality Improvement Committee









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MISSION PAUSED...

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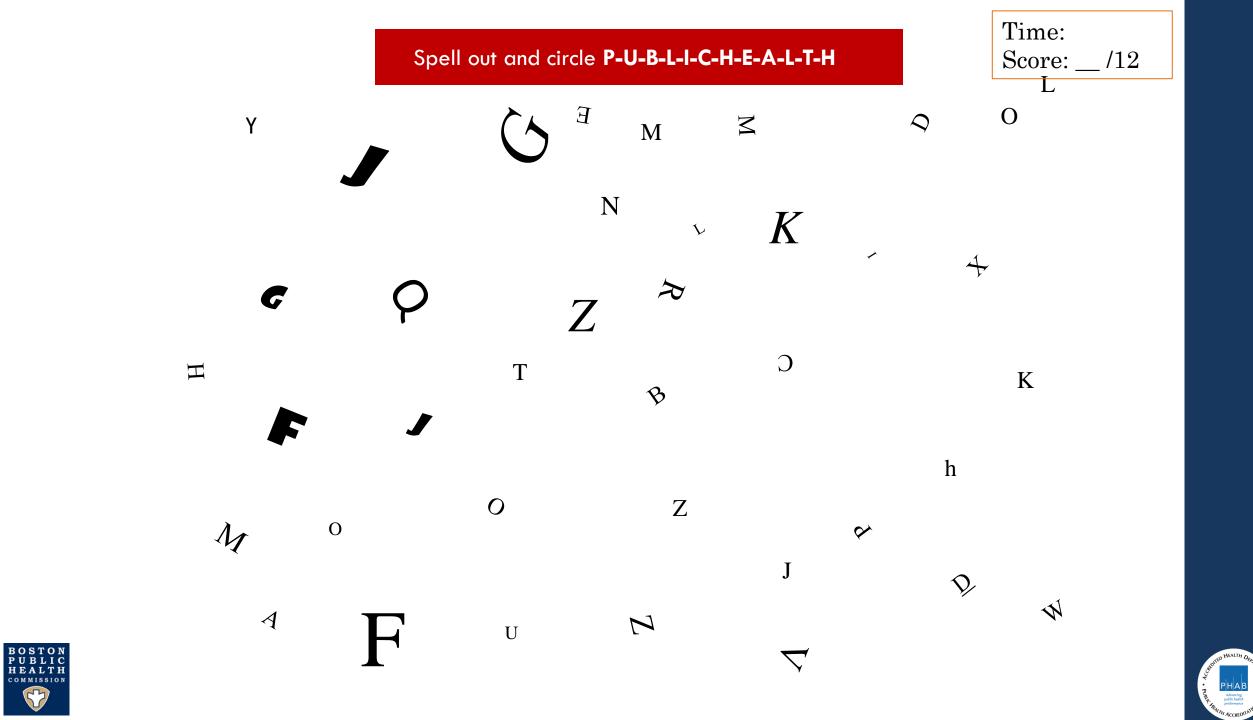
ROUND 2: First change introduced

Remove waste and unnecessary components of the system (the numbers!)



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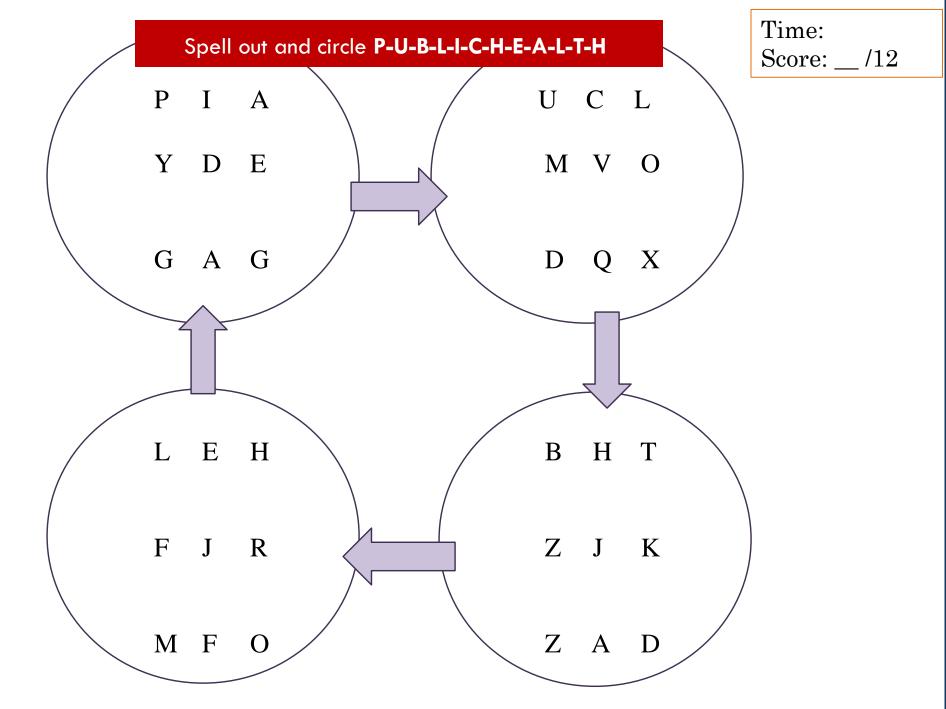
ROUND 3: Third change introduced

Create a standard, streamlined process (move clockwise around each group of letters to the next letter)



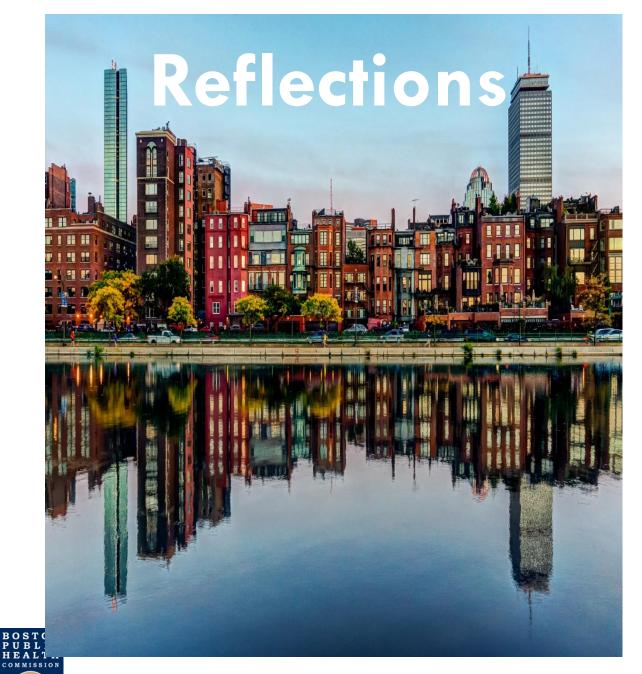
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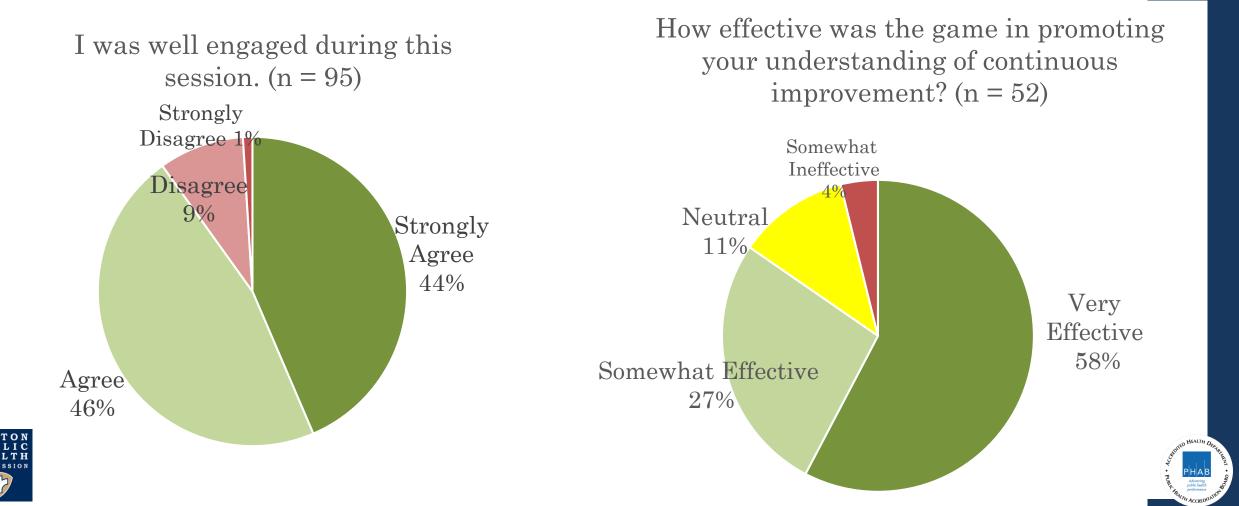


- •What do you think of the game?
- Did your time change between the first and last round?
- •What reflections do you have from this?



Finding Public Health The Game in Action

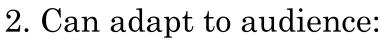
Facilitated in BPHC's bi-monthly New Hire Orientation, with over 600 staff to date.



Ideas to modify the game

1. Can play in more rounds:

For example, add a round where all letters are the same shape and orientation



Instead of finding "public health," find and circle "health equity," "recovery" or "viral suppression". Find and circle symbols and supplies i.e. everything required to administer flu shots

3. Can tailor your examples and narrative to mirror changes made in past QI projects











Building Healthy Communities

- ? WHAT: A game that uses plastic blocks to introduce staff to the impact of small process changes and change management
- WHO: Played in teams of five; can be played in groups as big as 50 and larger depending on available materials







MATERIALS:

- Building Healthy Communities blocks set (1 set per team)
- Printed copies of Building Healthy Communities Game and Change Agent Guides (1 each per team)
- Pens
- Incentives (most effective team, prizes)





Roles in the Game

Healthy Community Builders

• Build two components of a healthy community



Building Inspectors

 Compare assembled blocks to the plans (photos) to ensure they are accurate and complete



Time Keeper /Recorder

- Keep track of time
- Record time for each round

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Change Agent

• Implement changes in between each cycle







Rules:

Roles	Each team will have 2 Healthy Community Builders; 1 Building Inspector; 1 Time Keeper; and 1 Change Agent
Build	Healthy Community Builders build a community garden and a fresh produce truck
Record	Time Keeper records time in upper right hand corner
Act	Change Agent implements a process change without talking to the Builders
↓	
Repeat	Repeat for rounds 2, 3 and 4
Reflect	Facilitate discussion on moving through cycles and lessons of the game

Goal: Build two components of a healthy community as quickly as possible.





Time:

Cycle 1









Change Agent: Implement Change 1





Time:

Cycle 2









Change Agent: Implement Change 2





Time:

Cycle 3









Change Agent: Implement Change 3





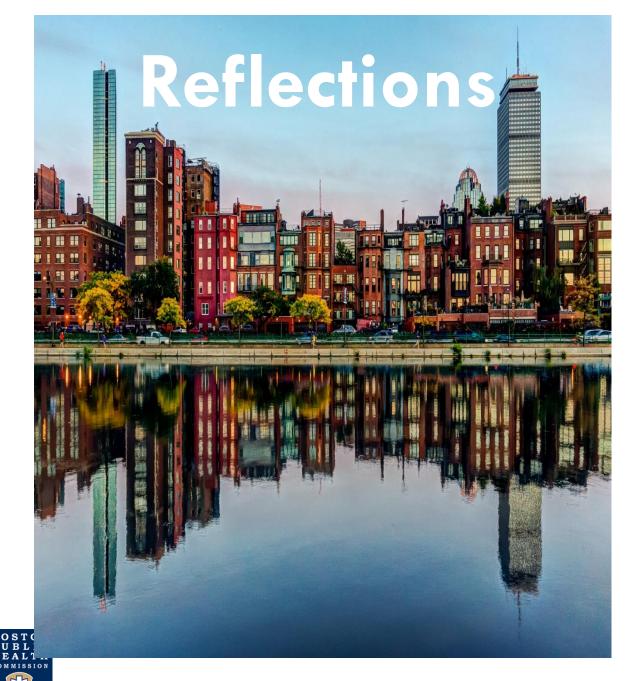
Time:

Cycle 4









- •What do you think of the game?
- •What obstacles did you face when building the garden and truck?
- •What effect did the small changes have on the outcomes?
- •What reflections do you have from this?



Building Healthy Communities The Game in Action

• Utilized in both internal and external teams to introduce to principles of quality improvement



BPHC's Accreditation Domain Team Leaders



BPHC Health Equity Advisory Committee





Ideas to modify the game

1. Roles are flexible

For example, use 1 healthy community builder, or have facilitator serve as timekeeper. You can also allow the change agent to speak to the builder.

2. Can play in fewer rounds

For example, omit round 3, or have teams build only the community garden

3. Play with different building blocks

For example, building a school, clinic, local business, grocery store





Connection to QI Principles

Spelling "public health" or assembling AIM a healthy community in as short a time What are we trying to accomplish? as possible **MEASURES** Measuring time taken How will we know that a change is an improvement? Removing waste, creating a process, CHANGES removing unnecessary steps... Ask your What changes can we make that will participants for other change ideas! lead to an improvement? **4. ACT** 1. PLAN Cycles of testing and reflection 3. STUDY 2. DO



	Game	Description	Pictures
	Mr. and	Participants brainstorm and select	
	Ms.	changes to the process of building	
	Potato	potato heads. Ms. Potato head is	
	Head	included to represent attention to	
Other		health equity.	
games at			
BPHC	Picture	Participants each get a piece of a	
	Drawing	larger picture to draw. At the end they	
	Game –	put the pieces together and realize	
	Ready,	that there is a lot of room for	
	Set, Go!	improvement and a system.	Adding Angles and
			L'HUNDING REAL
BOSTON PUBLIC			





	Game	Description					
Other games at BPHC	Red Bead game	Participants are under pressure to increase the proportion of red beads pulled from the bucket, but no substantial changes to the process mean that their scores are random and don't improve.	<image/>				
(continued)	Matching measures game	Participants receive slips of paper with measures on them, which they must match to the corresponding plan or	Community Health Improvement Plan BPHC	I. Achieve racial and ethnic health equity	II. Coordinate and integrate health care and community prevention services	III. Build and increase resilience in communities impacted by trauma	IV. Improve health outcomes through education, employment, and transportation
BOSTON PUBLIC HEALTH COMMISSION		program.	Strategic Plan BPHC Executive Priorities	I. Strategic Leadership	II. Health Equity I. Improve treatment and prevention of prescription drug overdose	 III. Informatics and Surveillance II. Strengthen the partnership between BPHC and the healthcare community to improve population health 	Public Health Programs III. Advance heath equity

ACCREC



Materials to share

- "Finding Public Health" Game
 - Slides, Handout and Facilitation Guide
- "Building a Healthy Community" Game
 - Slides, Change Agent Guide, Legos purchasing links, and Facilitation Guide
- "Ready, Set, Go!" Picture Drawing Game
 - Facilitation Guide and Template
- Slides from this session

Download here: <u>bit.ly/BPHC-games</u>

Additional Resources: <u>http://www.ihi.org/education/IHIOpenSchool/resources/Pages/AudioandV</u> <u>ideo/QI-Games-The-Red-Bead-Experiment.aspx</u>





Games at the BPHC

"BPHC demonstrated an inclusive and enthusiastic approach ... developing innovative and fun ways to foster staff engagement" PHAB Site Visitors "Liked the word search activity!" -Training attendee, BPHC staff

"Really engaging way to demonstrate QI" -Training attendee, BPHC staff

"The game was a great experience. Working as a team and peeling back the layers of clutter and confusion to make the process easier and foster in something that can be implemented in the office." -Training attendee, BPHC staff





Adapting for Your Organization

What worked well and did not work as well with these games?

Can you see yourself using these games? How could you adapt them for your organization?

What other games do you use to promote an understanding of quality improvement?





For leading BPHC on its journey to quality improvement culture change since 2015

Special thank you to Osagie Ebekozien





Thank you!

Please let us know if you try out one of these games, and let us know of new games you've facilitated!

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