

# COVID-19 Screening In the Harvard Public Schools

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# Why Screening Is So Important

- Find and quarantine people without symptoms before they can spread the virus
- Prevent disease spread in the greater community
- Additional evidence that anti-COVID procedures and practices are working
- Peace of mind
- Provides data that can be used to inform future school policies

# Screening Is One Piece of the Safety Puzzle

- Not a magic bullet
- Masking, distancing, and hand-washing remain CRUCIAL

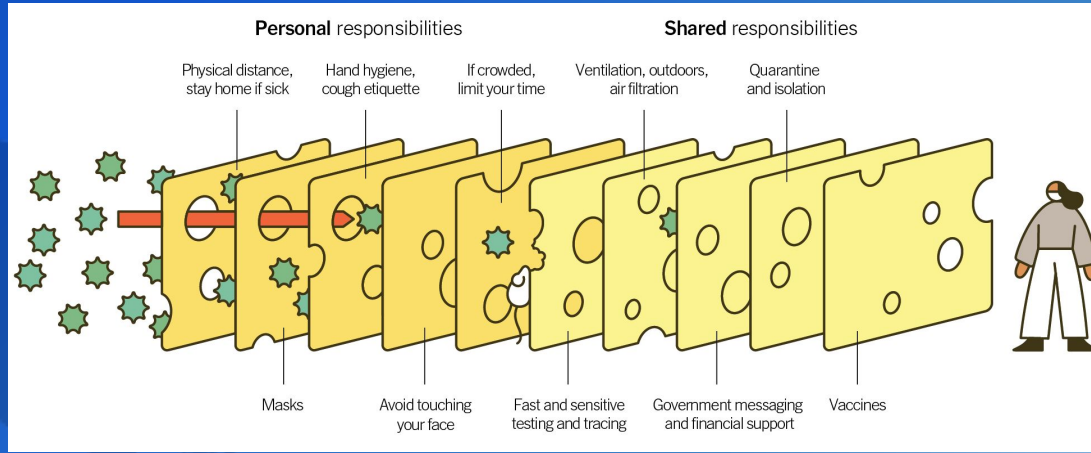
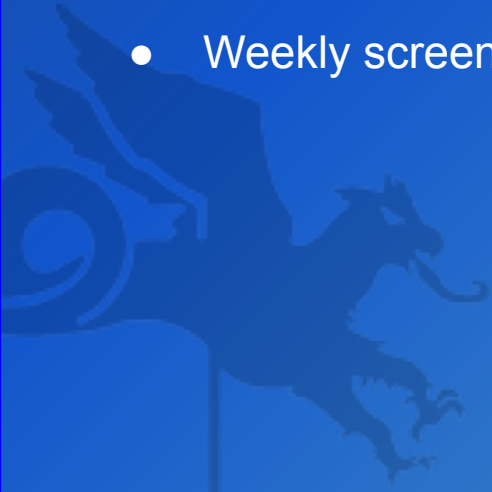


Image by Rose Wong, NY Times; adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason

# Participation, Privacy, and Frequency

- Screening is voluntary
- Based on surveys, at least 80% of families and staff want to participate
- Individuals' privacy will be maintained
- Weekly screening as long as funding available



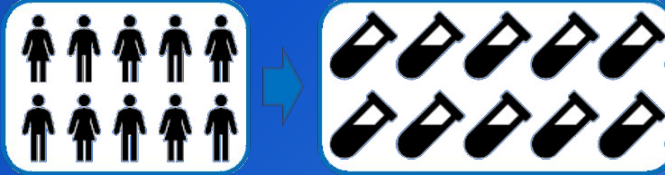
# Pooled PCR Tests at the Broad Institute

- PCR test (“gold standard”)
- Colleges, universities
- K-12 public schools
- Pooled testing



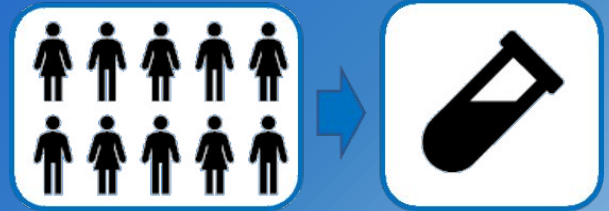
# Pooled Screening Costs Less

Ten Samples → Ten Tests



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Ten Samples → One Pooled Test



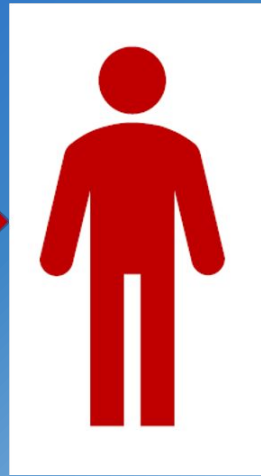
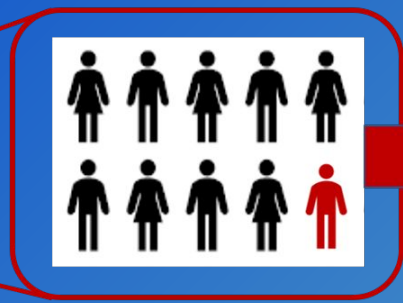
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# Positive Pools

Six Pools: One Is Positive



Ten Individual Tests



# Testimonial

“Our experience has been exceptional. . . . We have been testing weekly since August, with literally no issues.”

“I cannot imagine trying to do this effort to reopen school and keep our students and employees safe without the partnership with CIC.”

Charles B. McCullagh, Jr., CFO  
The Williston Northampton School



## Funding

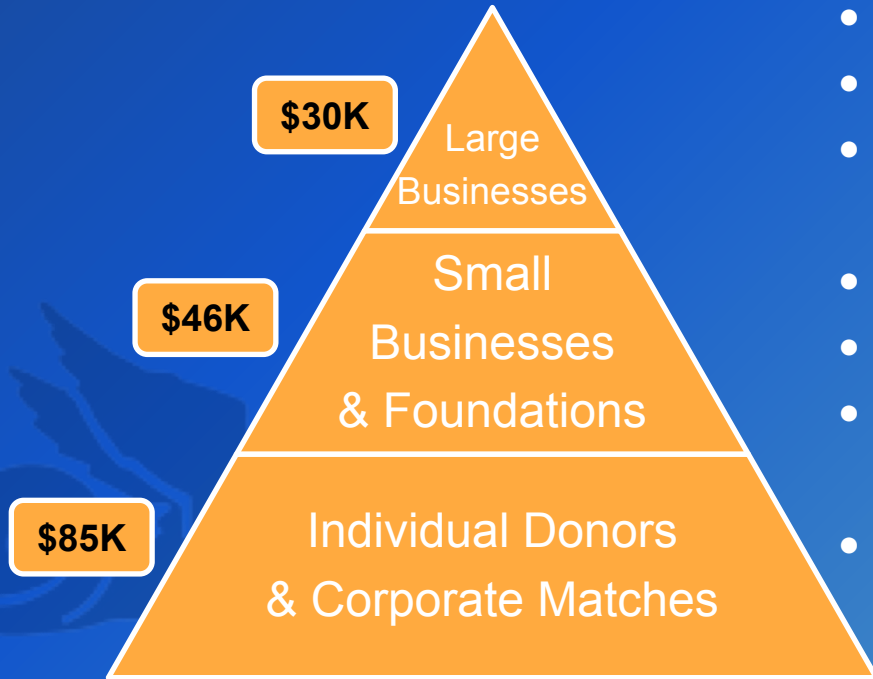
- Cost of program: \$10.50 / individual / week plus supplies, overhead
- Approximately \$163K for rest of school year
- First two weeks of screening funded by School Committee, PTO, and Harvard Teachers Association
- After that, screening funded by donations
- Donors → Harvard Schools Trust → Gifts to school system

# Fundraising

- Individuals
- Matches
- Local businesses
- Foundations



# Fundraising: *Overview*



- “Success” = any screening
- Have \$10K seed for pilot + 1 week
- Cost is \$8K / week, for projected participants
- 21 weeks of school remain
- Maximum program cost = \$163K
- Parent demand will drive early donations
- Later donations by corporate matches, businesses, foundations

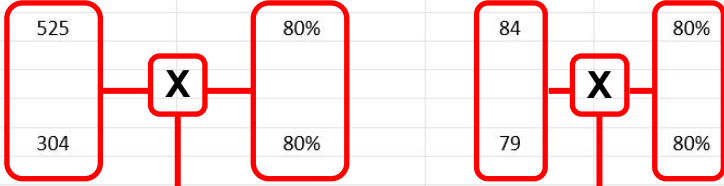
## Fundraising: *Entire School Year = \$163K*



<u>Donor Type</u>	<u>Goal Rate</u>	<u>Goal \$ Ave</u>	<u>Goal #</u>	<u>Projections</u>
<b><u>Individuals:</u></b>				
Donors:	\$50 - \$250+ ea.	\$200	X 250	= \$50,000
Super-Donors:	\$1K - \$3K ea.	\$1,500	X 12	= \$18,000
Company Matches:	\$50 - \$3K	\$300	X 78 <i>(25% of donors)</i>	= \$17,625
<b><u>Entities:</u></b>				
Small Businesses:	\$1K - \$5K	\$2,000	X 12	= \$24,000
Large Businesses:	\$10K - \$25K	\$15,000	X 2	= \$30,000
Foundations:	\$5K - \$10K	\$7,500	X 3	= \$22,500
<b>TOTALS:</b>				<b>\$162,125</b>

# Fundraising: *50% from Individual Donations*

Facility	# Enrolled Students	# in Onsite Hybrid Model	Student % Participation	# Staff	Staff % Participation
The Bromfield School 14 Massachusetts Avenue, Harvard, MA 01451 Phone 978-456-4152   Fax 978-456-3013	619	525	80%	84	80%
Hildreth Elementary School 27 Massachusetts Avenue, Harvard, MA 01451 Phone 978-456-4145   Fax 978-456-3287	431	304	80%	79	80%



**663 students**

**130 staff**

**262 contributions (40%)**

**78 Company Matches (25%)**



# Projected Program Costs (1<sup>st</sup> 7 weeks)

<b>21 school weeks</b>				<i>(TBS students)</i>		<i>(staff &amp; students)</i>			
<b>\$163K</b>		<b>VACATION NO SCHOOL</b>						<b>VACATION NO SCHOOL</b>	
Week Ending:	1/1/2021	1/8/2021	1/15/2021	1/22/2021	1/29/2021	2/5/2021	2/12/2021	2/19/2021	2/26/2021
<b><u>Hildreth Elementary (K-5)</u></b>									
staff	0	0	63	63	63	63	63	0	63
students	0	0	243	243	243	243	243	0	243
<b><u>Bromfield (6-12)</u></b>									
staff		0	67	67	67	67	67		67
students	0	420	420	420	420	420	420	0	420
<b>WEEKLY TOTALS:</b>	0	420	794	794	794	794	794	0	794
Rate / sample	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
<b>HPS Projected Payments to Vendor:</b>	<b>\$0</b>	<b>\$4,200</b>	<b>\$7,936</b>	<b>\$7,936</b>	<b>\$7,936</b>	<b>\$7,936</b>	<b>\$7,936</b>	<b>\$0</b>	<b>\$7,936</b>
				<b>Jan Total: \$28,008</b>			<b>Feb Total: \$23,808</b>		

# Projected Program Costs *(remaining 15 weeks)*

3/5/2021	3/12/2021	3/19/2021	3/26/2021	4/2/2021	4/9/2021	4/16/2021	VACATION NO SCHOOL 4/23/2021	4/30/2021	5/7/2021	ADULT VACCINE 5/14/2021	5/21/2021	5/28/2021	6/4/2021	6/11/2021	LAST WEEK OF SCHOOL 6/18/2021
63	63	63	63	63	63	63	0	63	63	0	0	0	0	0	0
243	243	243	243	243	243	243	0	243	243	243	243	243	243	243	243
67	67	67	67	67	67	67	0	67	67	0	0	0	0	0	0
420	420	420	420	420	420	420	0	420	420	420	420	420	420	420	420
794	794	794	794	794	794	794	0	794	794	663	663	663	663	663	663
\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
\$7,936	\$7,936	\$7,936	\$7,936	\$7,936	\$7,936	\$7,936	\$0	\$7,936	\$7,936	\$6,632	\$6,632	\$6,632	\$6,632	\$6,632	\$6,632
<b>Mar Total: \$31,744</b>							<b>Apr Total: \$31,744</b>			<b>May Total: \$27,832</b>				<b>Jun Total: \$19,896</b>	

# Impact

- Peace of mind for teachers and families
- Ability to isolate non-symptomatic cases swiftly
- Additional evidence that anti-COVID measures are working
- Additional data to inform future policy revisions

