



Fresh Air for Kids

2020-2021 School Year



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Program Coordinator - Education

Funding Partners:



Technical Partners:





Program Overview

- Fresh Air for Kids is a partnership between Green Venture & Dr. Denis Corr
- Began as the “Mobile Air Monitoring Program” in 2021
- To date, Green Venture & Dr. Corr have delivered 34 presentations to 31 schools, reaching 13 Wards
- FAFK educates students from Grades 5 to 9 on air quality through a series of four modules, available in-person or virtually



Pathway to Change

Participants

- Teachers of grades 5 to 9
- Students in grades 5 to 9

Campaign Targets

- Parents & guardians of participating students
- Students, parents, & guardians in the school community





Pathway to Change



Inputs

- Labour
- Equipment
- Funds to support campaign
- Information & communications

Activities

- Develop partnerships with participating schools
- Support school staff
- Develop & refine program materials
- MECP mobile monitoring
- Neighbourhood walkabout



Pathway to Change

Output Targets

- 4 schools per term
- At least 2 teachers per school
- 200 students per term

Outcome Targets

- Campaigns reach 200 parents/guardians
- 200 families reduce idling or car use





Virtual Learning Adaptations

- The 2020-2021 school year created new and unique challenges
- FAFK engaged classes by being flexible with start and end dates and with air quality data collection
- The program was adapted for the virtual classroom, with new content created using pre-recorded videos and live video calls



2020-2021 Participating Schools



School Name	Address	# of Students Participating
Bernie Custis Secondary School	1055 King St E., Hamilton	15
Colin MacDonald Community School	1570 Main St W., Hamilton	9
Dundana Elementary School	23 Dundana Avenue, Dundas	24
Grandview Adventist Academy	3975 Highway 6, Mount Hope	12
Highview Public School	1040 Queensdale Ave E, Hamilton	89
HWDSB Remote Class	n/a	30
Lawfield Elementary School	45 Berko Avenue, Hamilton	39



Virtual Program Outline

Pre-Program:

MECP Mobile Monitoring
Neighbourhood Walkabout

Program Components:

Module 1: Air Quality Education
Module 2: Air Quality Monitoring
Module 3: Creating a Campaign
Module 4: Program Wrap Up





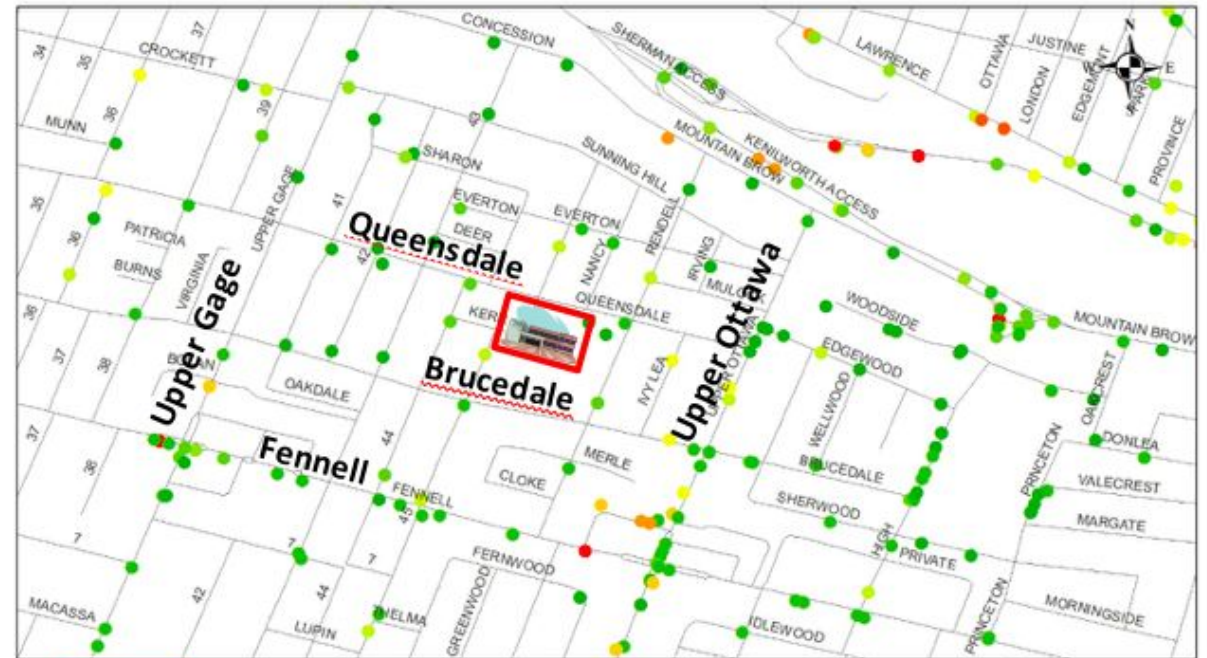
MECP Mobile Monitoring

Prior to the start of the program, Dr. Corr and the MECP conduct an air quality assessment of the participating school's neighbourhood.



Best Air Quality Ways To Get To Highview Public School

Highview School, Mobile Air Monitoring



Highview Public School



% Air Quality Health Risk

% Air Quality Risk



Find your home on the map.



Module 1: Air Quality Education

Format: Pre-recorded video & in-class activity

Goals: Students will understand what air quality is, what its sources are, and how it affects human health.

Objective: Students are introduced to air quality concepts via a pre-recorded video,

Activity: Air Quality True or False.

The worksheet is titled 'Air Quality True or False' in bold black text. At the top right is the 'Fresh Air for Kids' logo. Below the title are two lines for 'Name' and 'Date'. The main body of the worksheet contains 11 numbered statements, each followed by a rectangular box for a response. The statements are: 1. Air pollution can change soil chemistry. 2. Wearing gas masks is a physical adaptation that animals can do to protect themselves from poor air quality. 3. Humans take about 200 breaths every single day. 4. People between the ages of 18 and 65 are considered sensitive populations. 5. AQHI stands for Air Quality Happiness Index. 6. Higher AHQI numbers indicate higher health risks. 7. Volcanoes are a natural source of pollution. 8. Cow farts contain helium. 9. Transportation emissions are the top contributor to air pollution in Ontario. 10. Trees absorb water, sunlight, and carbon monoxide. 11. 20 particles 2.5 microns in size are the width of a human hair. On the left side of the worksheet, there is a green illustration of a tree on a small hill. At the bottom of the worksheet, there are several logos: Green Venture, Corr Research, CleanAir HAMILTON, Ontario, and the Ontario Trillium Foundation logo.



Module 2: Air Quality Monitoring

Format: Live video call with Dr. Corr

Goals: Students meet virtually with an air quality scientist and determine which routes to school likely have the best air quality. Students learn how to collect and display scientific data.

Objective: Students are introduced to Dr. Corr to discuss how air quality is measured & what parameters are used, and how Dr. Corr uses a hand-held measurement device to monitor air quality.





Module 3: Creating a Campaign

Format: Pre-recorded video & in-class activity.

Goals: Students will understand how idling effects air quality & their health. Students will learn how to brainstorm ideas to build their own campaign.

Objective: Review air quality principles, and help students develop their own ideas on how to help reduce idling.

Activity: Brainstorming worksheets.

The worksheet is titled 'Impact-O-Meter' and includes a 'Fresh Air for Kids' logo in the top right. It has fields for 'Name' and 'Date'. The main question is 'How can we share the anti-idling message?'. Below this is a 2x2 matrix with 'High Impact' at the top, 'Low Impact' at the bottom, 'Low Effort' on the left, and 'High Effort' on the right. At the bottom of the page are logos for Green Venture, Carr Research, CleanAir Hamilton, Ontario, and the Ontario Trillium Foundation. A small note at the very bottom reads 'An agency of the Government of Ontario / Un organisme du gouvernement de l'Ontario'.



Module 4: Program Wrap Up

Format: Live video call

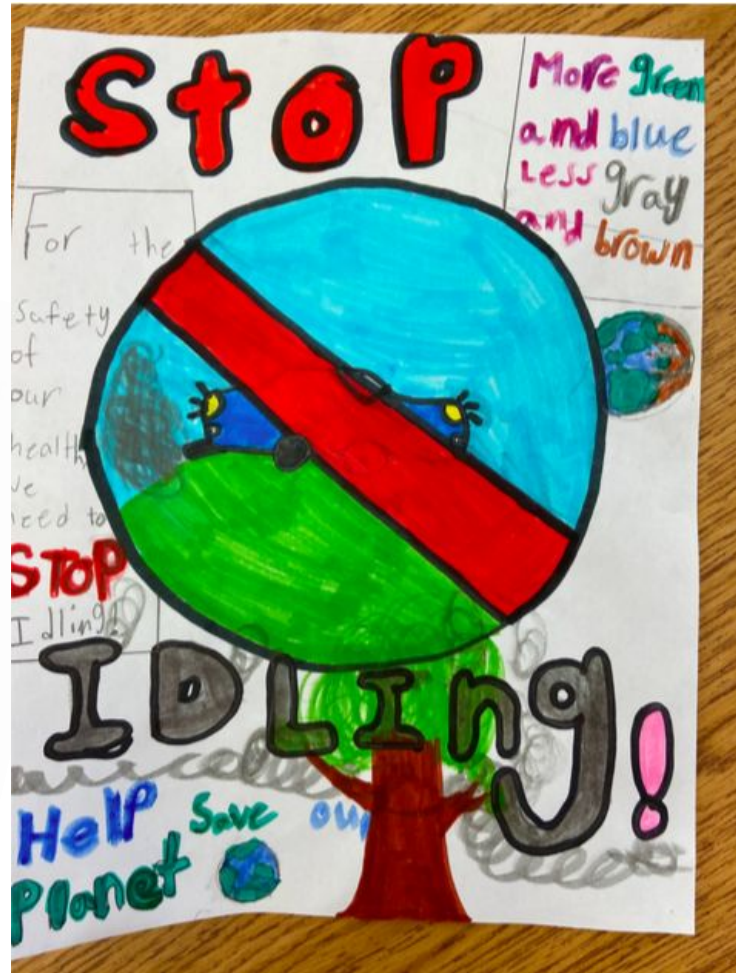
Goals: Students will know their actions can make a difference in their community and for our environment.

Objective: Students present campaign materials to Green Venture staff, and staff celebrate student success in their campaign with Certificates of Completion.



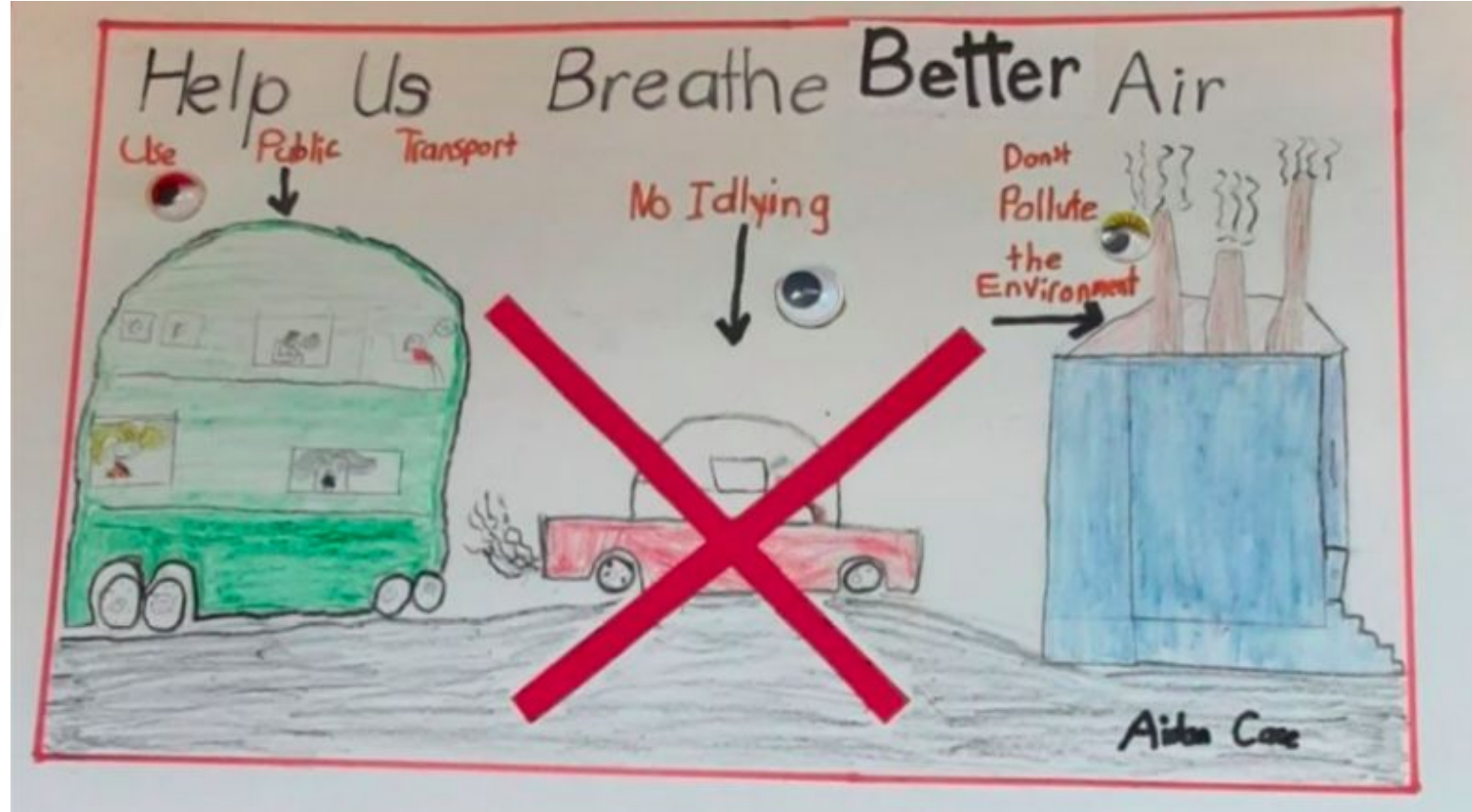


Module 4: Program Wrap Up





Module 4: Program Wrap Up





Key Outcomes

- 208 students were directly impacted by through participation in FAFK
- Social media posts reached 34,454 people
- 92% of students reported their knowledge of how they can improve air quality had increased
- When asked about actions they had taken:
 - 80% walked or took bikes
 - 14% took the bus
 - 51% carpooled; and
 - 78% had reduced idling





Next Steps

Over the 2021-2022 school year, we are planning to develop community versions of FAFK, including:

1. On-demand, self-guided programming aimed at families and community members.
2. On-demand, guided programming aimed at companies that serve an at-risk community (ie. senior centres & daycare centres), and companies with a high number of idling cars.





Thank You, Clean Air Hamilton!

Megan Sutton

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