

Richmond Has Heart

a K-12 Numeracy Project

As we come together in new ways to re-connect with each other and in our community, we would like to invite teachers and students to engage in a new wave of a community-focused spirit campaign. The Richmond Has Heart campaign strives to: show support for front-line and essential workers, to connect communities through empathy and compassion, and to find joy in the create and share process. How might your family contribute to this project? What might you design, create and share?

Share your design with your local community, by enlarging your piece from a drawing on a paper, to a window, sidewalk, fence, etc. Include an inspirational message of compassion and care. Take a photo to share on social media and hashtag your creation #RichmondHasHeart

Consider mathematical ideas as you create a design and then use scale to think about what size you will enlarge it to for sharing. Some mathematical ideas to consider including in your design:

- Combine shapes/polygons together to create a heart with paper or outside using sidewalk chalk
- Create similar heart shapes in increasing or decreasing sizes.
- Create a symmetrical design or heart shape using natural materials found outside of your home.
- Create a design using at least 12 lines inclusive of: horizontal, vertical, positive slope, and negative slope lines .
- Create a design that will be scaled be 2 metres high or 2 metres across to provide an actual size example of what two metres of physical distancing



Where do you see hearts in your neighbourhood and community?

Take a walk in your neighbourhood and take a clipboard or paper and pencil with you. Collect data. How many hearts can you find? How will you sort and keep track of your data? How can you represent that data in a graph? Why might the numbers of hearts you find change over time?

#RichmondHasHeart

created by Janice Novakowski and Shaheen Musani
for the Richmond School District, May 2020

RICHMOND
SCHOOL DISTRICT NO. 38

Visit the Richmond Has Heart site, within the Tourism Richmond website, for more ideas in how to show support for those working to fight the COVID-19 pandemic. On this site there is a colouring page and a colour poster to download, print and post in your window.

[HTTPS://
WWW.VISITRICHMONDBC.COM
/WE-ARE-RICHMOND-BC/
RICHMOND-HAS-HEART/](https://www.visitrichmondbc.com/we-are-richmond-bc/richmond-has-heart/)

Richmond Has Heart

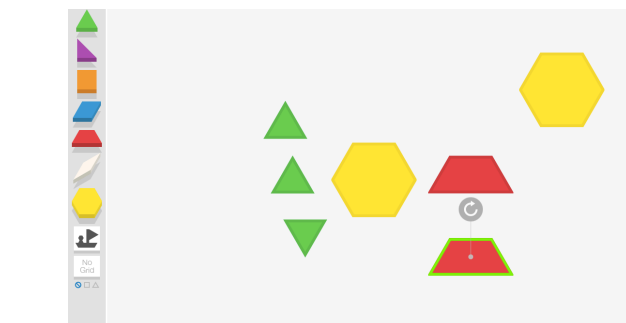
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Use virtual manipulatives to create a heart.

What different ways can you find to make a heart with the available shapes?

Can you make a design that is symmetrical?

What fraction or percentage of the heart is represented by each shape?



The following free app is web-based and is also available for iOS (iPad) and Chrome and Windows-based devices.

<https://www.mathlearningcenter.org/resources/apps/pattern-shapes>

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The following are some examples of how Richmond families have participated in the #RichmondHasHeart campaign in support of those fighting the COVID-19 pandemic.



What do you notice?

What do you wonder?

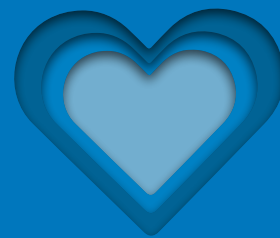
What do you think your family could create together?

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