PUZZLES!

The following shape can be folded into a cube. After folding, which side is opposite side A?

A B C D E F

After folding the above shape into a cube, you set the cube on a table so that the letter A is facing you, right side up. In this configuration, how is the letter D oriented?

D D D D

If a hen and a half can lay an egg and a half in a day and a half, how many days does it take 3 hens to lay 3 eggs?

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Learn More

GEM: https://sites.duke.edu/gem2018/

Bass Connections:

GIRLS
Exploring, Engineering, Examining, Experiencing, Encountering, Enraptured by, Experimenting in, Enjoying, Excelling at, Enlightened in, Excited by, Engaged in, Engrossed in

MATH

A math enrichment program and research study at Duke University focused on encouraging young women to explore math
**Problem Based Learning**

Based on cutting-edge methods, we’ve designed a program to improve girls’ math confidence and abilities. Workshops will be fun, hands on, and interactive! The materials and activities will encourage students to solve interesting problems using many different approaches. Students will build new math and logic skills and apply their existing skills in new ways. Students will have the opportunity to meet each other and connect over exciting math and science while working in teams.

**Who Should Join?**

This program welcomes all 6th, 7th, and 8th grade girls to apply! (No minimum math grade requirement. This program is for any and all girls!)

**Are you uncertain about math?** You’ll have a chance to explore math in a non-competitive environment!

**Do you want extra math focus?** You’ll have a chance to hone your problem solving skills!

**Are you interested in what it’s like to be a woman in a STEM field?** You’ll meet women in STEM!

**Would you like to build math confidence?** You’ll gain experience working with lots of different problems!

**Are you excited about math?** You’ll have a chance to work on challenging puzzles!

**Did you attend last year?** Welcome back!

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**How Will Duke Researchers Be Involved?**

Researchers from Duke will study how these workshops impact girls’ math confidence and abilities. Study participation is optional.

**Discussing Women in Math**

In the program, we’ll discuss stereotypes about girls doing math and ways to develop self confidence in math. Workshop activities will be led by female undergraduate students. These discussions will include information on current research, personal stories from undergraduate leaders, and opportunities for students to share their own feelings and experiences.

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<td><strong>Parent Info Session 6:00pm-7:00pm:</strong> January 9, location TBA</td>
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<td><strong>Saturdays 2:00pm-4:00pm:</strong> January: 11, 18, 25</td>
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<td><strong>Summer Session:</strong> Dates and time TBA</td>
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**Application**

To apply, ask your math teacher for an application form or visit: [https://sites.duke.edu/gem2018/](https://sites.duke.edu/gem2018/)

[https://tinyurl.com/dukegem](https://tinyurl.com/dukegem)

Return your application by December 9, 2019 at 5pm. You can submit online or submit a hard copy to your teacher.