

Home Learning Activities: Week 10

Grade 6J – Mr. Methot



******Since this is the last week of home learning, I won't be teaching any new concepts/outcomes. Just continue with activities and lessons to practice what we have been looking at for the past couple of weeks. Have a great summer!

Math:

- **Netmath** - There are no new lessons this week, so you can work on any previous lessons that are unfinished. Log in at www.netmath.ca.
- **Dreambox** - There are 2 lessons assigned, and they are marked with a blue star. These lessons practice estimating the measure of angles and measuring angles using a protractor. Log in information can be found in the document called "**Dreambox 6J**".
- **Breakout EDU** - There are 2 games for you to solve. Log in at <https://student.breakoutedu.com/login>. Good luck!

Class code: P3KS95

- **Problem of the Week** - This week's problem:
<https://cemc.uwaterloo.ca/resources/potw/2019-20/French/POTWB-19-GS-06-P-f.pdf>

Solution to last week's problem:

<https://cemc.uwaterloo.ca/resources/potw/2019-20/French/POTWB-19-GS-23-S.pdf>

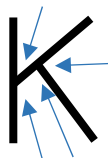
Solution to this week's problem:

<https://cemc.uwaterloo.ca/resources/potw/2019-20/French/POTWB-19-GS-06-S.pdf>

- **Scavenger Hunt** - A fun activity to get outside and search for math objects! Check out the file titled "**Chasse au Trésor de Maths**".
- **Angles Found in the Environment** - This week I want you to be observant for all the different angles that are surrounding you at home. Explore around your house and outside for several examples of each type of angle that you can find. For example, a computer screen has a right angle (90°). You can take pictures of the items if you want and try to estimate the measure of each angle you find. Have fun with it and you will discover that angles are everywhere around you!

A couple of common examples of where angles can be seen and examined are in letters of the alphabet and on the hands on a clock:

- Using the capital letters of the alphabet, you can identify the types of angles in each letter and estimate the measurement of each angle.
- Using the hands on a clock, you can identify an angle at any time of day or night. And once again you can estimate the measurement of each angle.



Angle obtus
Environ 120°

- **Online Angles Games** - The first game is great for practicing using an interactive protractor to measure angles. The second game is a fun challenge to try and create angles using estimation and visualizing the sizes.

https://www.mathplayground.com/rocket_angles.html

<https://www.mathplayground.com/alienangles.html>

- **Middle School Math Games** - Here is a website with a variety of middle school math games and activities. Some are online and other are hands-on opportunities.

<https://www.learn-with-math-games.com/middle-school-math-games.html>

- **Summer Math Activities** - Here is a website with a variety of fun, hands-on activities, many of which can be done outside in the summer weather. A few that I would suggest trying are: #16, #11, and #3. If you decide to try the water balloon activity or designing your own math game, you can include any math concept that you've learned this year (fractions, decimals, order of operations, etc).

<https://blog.mindresearch.org/blog/summer-math-activities-for-kids>

STEAM & Science:

- **Week 10 Challenge** - Check out the attached files. Feel free to try any of the other cross-curricular activities. Have fun and share on Teams if you want!
- **Challenge Cards** - In the document titled "**Expériences de Sciences**" there are 44 science and engineering challenges that you can try. Feel free to perform and attempt whichever ones you want.
- **Exploring Bernoulli's Principle** - Here are some hands-on activities and situations that involve this principle. It explains why certain objects move the way they do. Very interesting and fascinating!

1. Suspend two ping pong balls from a meter stick across two chairs at the same level, about 6-10 cm apart, and predict how the balls will move when you blow between them. Test your prediction to see what happens.
 2. With the fingers of both hands, hold a single sheet of paper just below your lower lip. Allow the paper to bend and hang downward, then blow across the top surface of the paper. What happens?
 3. Some real-life examples of Bernoulli's principle include the movement of a shower curtain after the shower is turned on, the way long hair will fly out an open window of a moving car, and throwing a baseball curveball. If you are curious to learn more, you can research these situations to learn more about why they occur and how they are affected by Bernoulli's principle.
- **Insect Investigation** - Explore outdoors for insects and see if you can catch a close view of their wing design and shape. You can try to take a picture to zoom in further on the details of the wings. If you want, you can also draw an insect that you believe has wings that are best designed for flying based on their shape. You can share pictures of your discoveries and findings on Teams! 😊

Videos:

- **How to Use a Protractor to Measure an Angle** - https://www.mathplayground.com/mv_using_protractor.html
- **How to Make a Homemade Paper Protractor** - <https://www.youtube.com/watch?v=XSLzCWTOsWk>
- **Bernoulli's Principle** - <https://www.youtube.com/watch?v=mgeIWXld9FU>

- **Types of Angles** - <https://www.youtube.com/watch?v=ogo-jCiBw3g>
- **Estimating the Measure of Angles** - https://www.youtube.com/watch?v=4ErcvECGWFQ&list=PLrt_BPqnOBnOcdSUQms-ry54RGqBv6072&index=3
- **Measuring Angles with a Protractor** - https://www.youtube.com/watch?v=3nuuxN2oOIw&list=PLrt_BPqnOBnOcdSUQms-ry54RGqBv6072&index=5
- **Angles in a Triangle Part 1** - https://www.youtube.com/watch?v=GkXujDrfaAQ&list=PLrt_BPqnOBnOcdSUQms-ry54RGqBv6072&index=9
- **Angles in a Triangle Part 2** - https://www.youtube.com/watch?v=eYFv7imvPao&list=PLrt_BPqnOBnOcdSUQms-ry54RGqBv6072&index=10
- **Angles in a Triangle Part 3** - https://www.youtube.com/watch?v=1mwvswr129k&list=PLrt_BPqnOBnOcdSUQms-ry54RGqBv6072&index=11



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Enjoy your last week of home learning before summer!!