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If you have any questions or concerns, please email me at:

dana@thetrendysciencetеacher.com

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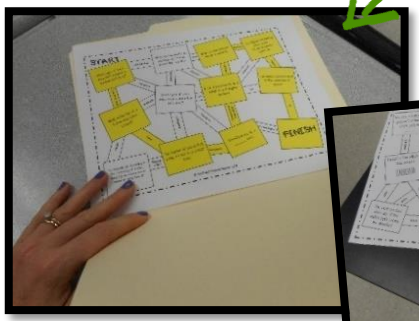
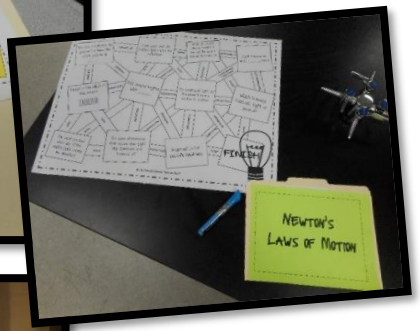
Teacher Instructions:

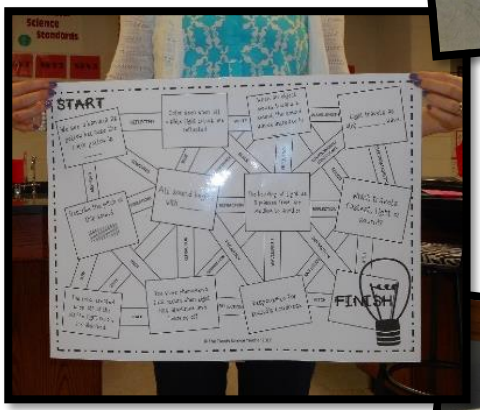
- Mazes are a great way to introduce new content or to review and reinforce taught content. They work great in station-style teaching activities (see picture) and have so many uses in the classroom. The possibilities are endless! ☺
- I use these in my own classroom as a way to offer my students practice outside of the traditional worksheet. My students look at this practice as a **game** rather than an "assignment;" therefore, they are great for quick homework assignments!
- Check out the pictures for examples of ways that you can use mazes in your classroom!

How can you use mazes?

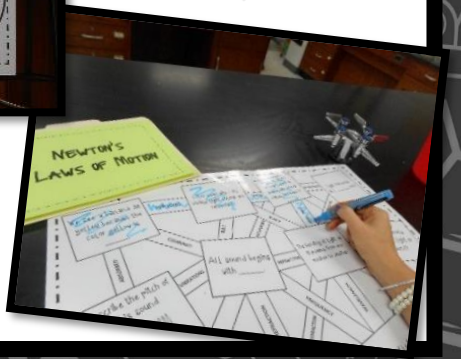
Try them in review stations







Print them as posters!



Laminate for use over and over and over again!

Ohm's Law Maze- Digital Access

Click HERE
to access the digital version
of this assignment.

Instructions:

1. Make sure that you are logged in to your Google account.
2. Access the digital assignment by clicking HERE.
3. Click "make a copy" after you follow the link. You will now have your own original copy saved in your Google Drive.
4. View the product and make any changes that you would like before you share with your students (add instructions, add slides, etc.)
5. If you aren't using Google Classroom, you will want to click on the "share" button in the top right of the screen and give your students the link provided.
6. Once they have the link, they will be able to see the file in "view only" format. Have them click on "file" and then "make a copy" so that they have their own editable version that they can complete on their own.
7. If you are going to assign with Google Classroom, read on for more specific information.

Instructions for Posting to Google Classroom:

1. Choose the class in which you want to post the assignment to.
2. Click the + sign
3. Click on the "create assignment" button
4. Choose the Google Drive icon
5. Select "my drive"
6. Find the document that you want to assign and double click
7. Add a title, a due date (optional) and instructions if you choose.
8. Click the drop down box and select "make a copy for each student."
9. Then, click "assign."

Ohm's Law Review MAZE

Name:_____

Date:_____

START

The measure of the force that moves charges through conducting elements

CURRENT

Unit for current

AMPS

Unit for resistance

OHMS

Assuming current remains unchanged, what will happen to resistance if the voltage is increased?

RESISTANCE

OHMS

VOLTAGE

26 Ω

60 Ω

OHMS

VOLTS

AMPS

INCREASE

DECREASE

Unit for voltage

VOLTS

The resistance of a toaster that has a voltage of 60V and a current of 2.3 amps.

138 Ω

What is the voltage of a light bulb filament with a resistance of 2.1 ohms and a current of 36 amps?

2400 AMPS

What is the current in a 120 V circuit if the resistance is 20 Ω?

AMPS

VOLTAGE

200 AMPS

RESISTANCE

0.04 Ω

76 V

17.14 V

0.06 V

DECREASE

6 AMPS

The current in a 10V circuit if the resistance is 20 Ω.

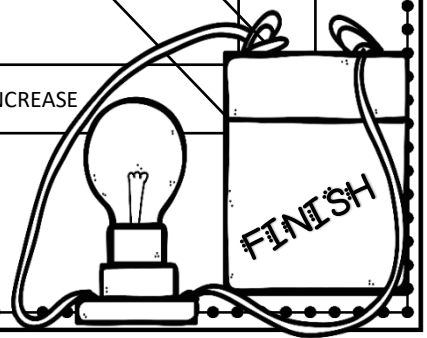
0.5 AMPS

In the equation for Ohm's law, *I* is the _____.

CURRENT

If voltage decreases and resistance is constant, current will _____.

INCREASE



Answer Key

Ohm's Law Review MAZE

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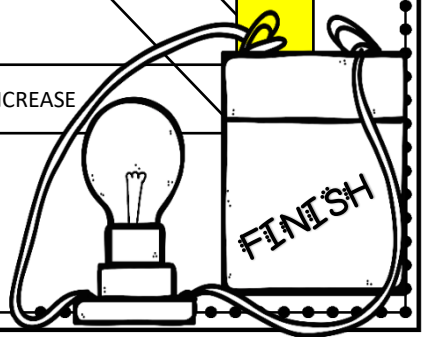

Other resources that may interest you...