

Today's "Plan" — Thursday March 16, 2023

1. *Close out all unnecessary apps/Safari tabs, then flip 'em flat*
2. Attendance/Brain Stretcher
3. Does anyone still need to take the Unit 6 test?
4. Take pre-test for this unit
5. Newton's Laws of Motion

Today's Learning Objectives:

- Demonstrate Newton's Laws of Motion,

Newton's 3 Laws of Motion

1st Law: An object at rest tends to stay at rest, and an object in motion tends to stay in motion until acted on by another force (inertia).

ex: standing on a moving bus, bus stops, you fall forward.

Gravity and friction cause things to slow down/stop.

2nd Law: Motion depends on **mass of the object**
& amount of force applied.

ex: With same speed of swing, **hit a baseball**
and a bowling ball with a bat.

3rd Law: Every action has an **equal**
and opposite reaction.

ex: **Recoil** from firing a gun.

Newton's Laws Assignment

- Create a presentation that for each law of motion:
 - Explains the law in words.
 - Shows at least two visual examples of the law in action.
 - Pictures should be hand drawn!

Tarea de las leyes de Newton

Cree una presentación que para cada ley de movimiento:

- Explica la ley en palabras.
- Muestra al menos dos ejemplos visuales de la ley.
- ¡Las imágenes deben ser dibujadas a mano!

Newton 3 Leyes de Movimiento

1. Un objeto en reposo tiende a permanecer en reposo, y un objeto en movimiento tiende a permanecer en movimiento a menos que una fuerza externa actúe sobre él.
2. La fuerza es igual a la masa por la aceleración ($F=ma$).
3. Para cada acción, hay una reacción igual y opuesta.

3 Leyes de Movimiento Tarea

- Hágalo en iMovie (o algo similar)
- Identifique cada una de las 3 leyes (escritas)
- Para cada ley, de dos ejemplos que demuestren la ley.
- Debería haber algo de escritura en estos ejemplos.
- Debería haber algo de edición en estos ejemplos.

Today's "Plan"—Freyday March 17, 2023

1. ***Close out all unnecessary apps/Safari tabs, then flip 'em flat***
2. Attendance/Brain Stretcher
3. Does anyone still need to take the Unit 6 test?
4. Continue/Finish Newton's Laws of Motion
5. PHET simulations on [estesparksteam.com](https://www.estesparksteam.com)
 1. If you find some that you think are good, please email me the title or link.

Today's Learning Objectives:

- Demonstrate Newton's Laws of Motion.

Today's "Plan" — Monday March 20, 2023

1. Attendance/Brain Stretcher
2. Show some Newton's Laws assignments
3. Finish Newton's Laws of Motion
4. PHET simulations on [estesparksteam.com](https://www.estesparksteam.com)
 1. Play at least 3 different simulations
 2. For each simulation:
 1. Name the simulation
 2. Define each of the **topics**.
 3. Explain how they are used in the simulation
 3. When finished, turn in to **3 simulations**

Today's Learning Objectives:

- Demonstrate various principles found in science.

Today's "Plan" — Monday March 20, 2023

1. Attendance/Brain Stretcher
2. Mostrar algunas tareas de las Leyes de Newton
3. Terminar las leyes del movimiento de Newton
4. Simulaciones PHET en [estesarksteam.com](https://www.estsarksteam.com)
 1. Juega al menos 3 simulaciones diferentes
 2. Para cada simulación:
 1. Nombra la simulación.
 2. Definir cada uno de los temas.
 3. Explique cómo se aplican en la simulación.
3. Cuando haya terminado, entregue **3 Simulations**

Today's Learning Objectives:

- Demonstrate various principles found in science.

Today's "Plan" — Tuesday March 21, 2023

1. Attendance/Brain Stretcher
2. Lab planning: Does Air Have Weight?
3. PHET simulations on [estesparksteam.com](https://www.estesparksteam.com)
 1. Play at least 3 different simulations
 2. For each simulation:
 1. Name the simulation
 2. Define each of the **topics**.
 3. Explain how they are used in the simulation
 3. When finished, turn in to **3 simulations**
4. Try out Electronics Kits

Today's Learning Objectives:

- Create a plan to prove whether or not air has weight.

What is the difference between *mass* and *weight*?

Mass: the amount of matter in an object

Weight: results from the pull of gravity on an object

Today's Learning Objectives:

- Create a plan to prove whether or not air has weight.

The moon has $1/6$ the gravity of Earth.

You weigh 100 pounds on Earth; your mass is also 100 pounds.

You go to the moon. You now weigh 16.6 pounds.

Is your weight the same?

Would your mass still be the same?

Today's "Plan" — Wednesday March 22, 2023

1. Attendance/Brain Stretcher
2. Review Lab planning: Does Air Have Weight?
3. Lab: Does Air Have Weight
 1. Do **Lab Conclusions**, turn into Schoology
4. PHET simulations on estesparksteam.com
 1. Play at least 3 different simulations
 2. For each simulation:
 1. Name the simulation
 2. Define each of the **topics**.
 3. Explain how they are used in the simulation
 3. When finished, turn in to **3 simulations**
5. Try out Electronics Kits

Today's Learning Objectives:

- Determine whether air has weight or not.

Lab Procedures:

1. Gather a triple beam balance, balloon, and a small piece of tape.
2. Put the tape in the form of a loop (sticky part facing outwards), and then set it on the pan of the balance.
3. Zero out the balance with the tape on it.
4. Find the mass of the balloon, record on chart.
5. Inflate the balloon and then tie it off.
6. Weigh the balloon again, this time with it being inflated.
7. Record the mass of the inflated balloon, record on chart.
8. Subtract the difference (if there is one) of the empty balloon from the inflated balloon, record the difference on your chart.
9. Then share your data with another group, record their results.
10. Find the average of the two trials.

Today's Learning Objectives:

- See if we can determine whether air has weight or not.

Today's "Plan" — Thursday March 23, 2023

1. Attendance/Brain Stretcher
2. Review Lab Conclusions.
3. Finish **Lab Conclusions**, turn into Schoology.
4. Unit 7 Vocab
 1. Making a crossword puzzle
 2. Choose at least 15 of the 19 terms

Today's Learning Objectives:

- Could we determine whether air has weight or not?

Unit 7 Vocab

force: a push or a pull exerted on an object

field: area in which an object experiences a force that acts at a distance

velocity

speed

acceleration

gravity

mass

weight

friction

motion

inertia

magnetic force

magnetic domain

electric force

gravitational field

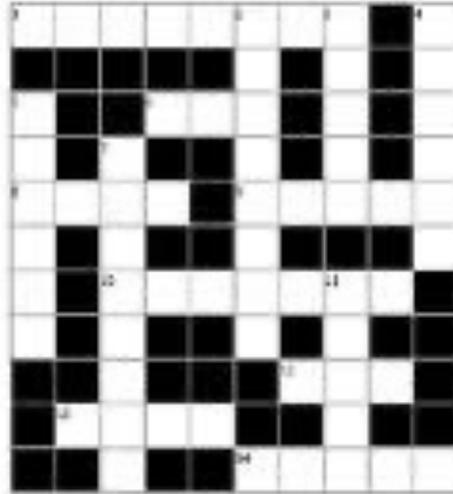
electric current

electromagnetism

potential energy

kinetic energy

Keys to Making a Crossword



ACROSS

1. Milt Johnson's creation.
6. David Allen's work-life management system (abbr.)
8. His program, SpamSieve, can filter out email offers of Cialis, CRM software, and Nigerian bank accounts.
9. Popular AT&T first name.
10. He writes about blogs.
12. HomeDock Deluxe's maker.
13. _____ Quant (SimpleMaticX maker)
14. Web service for sending large files.

DOWN

2. Open source sound editor.
3. Dude who does 3D.
4. Product offered from www.crosswords.com
5. Reviews Editor
7. Mark Taper's column.
11. First name of the who was on Jeopardy! and Who Wants To Be A Millionaire.

W	V	E	R	T	I	C	A	L	L	Week
R	O	O	A	F	F	L	S	A	B	Find
A	C	R	I	L	I	A	T	O	A	Random
N	D	O	D	K	O	N	W	D	C	Sleuth
D	R	K	E	S	O	O	D	D	K	Backward
O	E	E	P	Z	E	G	L	I	W	Vertical
M	S	I	I	H	O	A	E	R	A	Diagonal
A	L	R	K	R	R	I	R	E	R	Wikipedia
K	O	D	I	D	E	D	R	C	D	Horizontal
H	E	L	W	S	L	E	U	T	H	Word Search

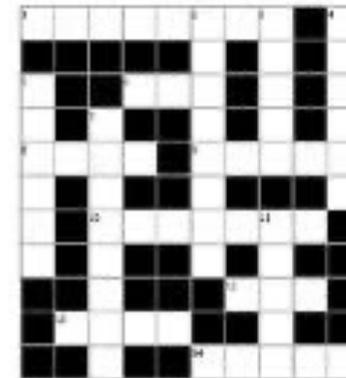
Keys to Making a Crossword

Basic Rules/Reminders:

- ✓ Will need 3 sheets (blank grid sheet with #'s, answer key grid, & description/hint sheet.
- ✓ Don't use spaces, hyphens, etc.
- ✓ Every word should be connected to another word.
- ✓ Pencil is better than pen
- ✓ Cannot go diagonally, backwards, etc.—only ACROSS and DOWN
- ✓ SPELL WORDS CORRECTLY!

Steps:

1. Make key first (fit words onto grid)
2. Assign those words numbers
3. Then make blank sheet with numbers
4. Then make description sheet
5. May want word bank



ACROSS

1. Matt Johnson's creation.
6. David Allen's work-life management system (abbr.)
8. His program, SpamSieve, can filter out email offers of Cialis, OEM software, and Nigerian bank accounts.
9. Popular ATPM first name.
10. He writes about blogs.
12. HomeDock Deluxe's maker.
13. _____ Quasar (SimpleMovieX maker)
14. Web service for sending large files.

DOWN

2. Open source sound editor.
3. Dude who does SD.
4. Product offered from www.answerwords.com
5. Reviews Editor
7. Mark Tennor's column.
11. First name of the who was on Jeopardy! and Who Wants To Be A Millionaire.

Today's "Plan"—Freyday March 24, 2023

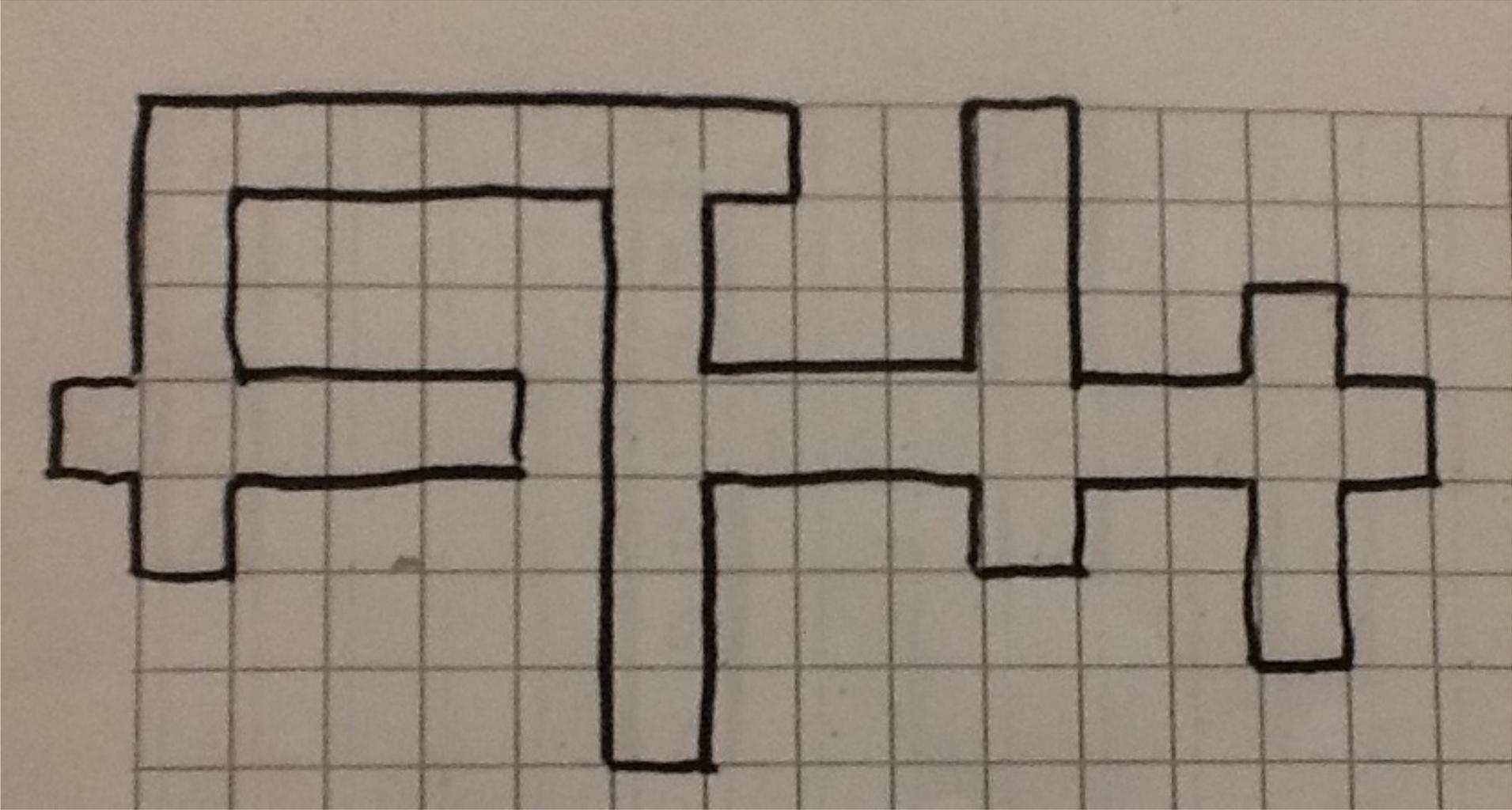
1. Attendance/Brain Stretcher
2. Missing work
3. Reminders on how to make crossword.

Today's Learning Objectives:

- Learn key vocabulary terms

- 1. *Make sheet placing at least 15 words on graph paper.***
 1. Assign beginning of each word a number.
 2. Outline all spaces that contain a letter.
- 2. *Make 2nd sheet on graph paper with just the outline & numbers***
- 3. *On a document or piece of paper, write out the definitions/hints.***

① Z O O L O G Y ⑤ P
E E L
B O U ④ F
⑥ W O R I O N ③ L I G H T Y E A R
A O O L
G L
Y L



ACROSS:

① _____ is the study of animals.

③ Long distances, such as how far away a star may be, could be measured in a/an _____.

⑥ This is a constellation known for its "belt", which is made up of 3 stars.

DOWN:

① This is an animal with black + white stripes that is commonly found in Africa.

② _____ is the study of the Earth's structure.
A person who is interested in rocks might enjoy this subject.

④ The autumnal equinox occurs during this season.

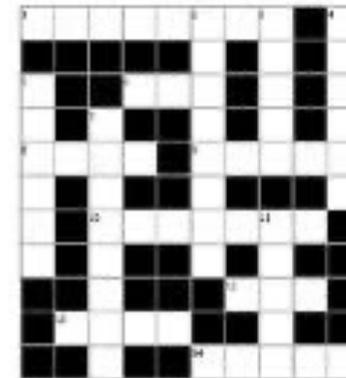
Keys to Making a Crossword

Basic Rules/Reminders:

- ✓ Will need 3 sheets (blank grid sheet with #'s, answer key grid, & description/hint sheet.
- ✓ Don't use spaces, hyphens, etc.
- ✓ Every word should be connected to another word.
- ✓ Pencil is better than pen
- ✓ Cannot go diagonally, backwards, etc.—only ACROSS and DOWN
- ✓ SPELL WORDS CORRECTLY!

Steps:

1. Make key first (fit words onto grid)
2. Assign those words numbers
3. Then make blank sheet with numbers
4. Then make description sheet
5. May want word bank



ACROSS

1. Matt Johnson's creation.
6. David Allen's work-life management system (abbr.)
8. His program, SpamSieve, can filter out email offers of Cialis, OEM software, and Nigerian bank accounts.
9. Popular ATFM first name.
10. He writes about blogs.
12. HomeDock Deluxe's maker.
13. _____ Quasar (SimpleMovieX maker)
14. Web service for sending large files.

DOWN

2. Open source sound editor.
3. Dude who does SD.
4. Product offered from www.answerwords.com
5. Reviews Editor
7. Mark Tennor's column.
11. First name of the who was on Jeopardy! and Who Wants To Be A Millionaire.