

# Science Homework

Sections 5A, B, C, D, & E

February 19-23, 2024

Day	Homework
Monday	Page 1: Forms of Energy-Nothing but Net
Tuesday	Page 2: Forms of Energy Crossword Puzzle
Wednesday	Study for Vocabulary Quiz on Friday, 2/23
Thursday	Study for Vocabulary Quiz on Friday, 2/23
Friday	No homework, enjoy your weekend! ☺

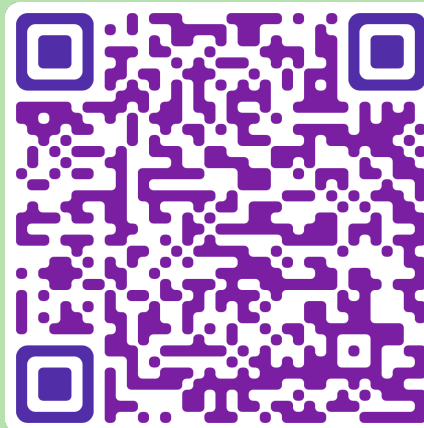
## Reminders

- HW due Monday 2/26/24
- Topic 5 Vocabulary Quiz Friday, 2/23/24
- Study materials (notes, videos, lesson slides, extra practice, etc.) can be found in Archie under Science Resources.

## VOCABULARY

energy	change
kinetic	atoms
potential	electrons
light	protons
heat	neutrons
sound	attract
electrical	repel
chemical	positive charge
mechanical	negative charge
opaque	electricity
transparent	conductors
translucent	insulators
reflect	static electricity
refract	electric current
absorb	circuit
vibrations	wires
pitch	switch
electric charge	
thermal	
friction	
temperature	energy of motion
thermometer	
moving water	
air	
motion	

[Topic 5 Forms of Energy Vocabulary](#)



## Forms of Energy

Directions: As you read through the passage, underline any examples that describe a type of energy. (Mechanical, Light, Electrical, Sound, Heat, Chemical)



### Nothing but Net

I never thought I would be playing basketball. My aunt had been trying to convince me to play, and eventually I gave in. Now here I am, standing in the middle of the basketball court with the ball in my hand and a million people staring at me.

To get everyone to stop staring at me, I throw the ball to one of my teammates. They grunt as they catch it, then turn to throw it up at the hoop. The ball flew, bounced off the rim, making it *clang* and shake, then bounced back onto the court. A player from the other team grabbed the ball and started running down the court to the other side. They shot the ball, it went into the hoop, and the scoreboard lights said 22 now instead of 20 on the away side. Just when we got started up again, the referee blew his whistle. Someone had dropped some fresh, hot popcorn onto the court and they needed to clean it up. I looked around while we waited. All of the other players were dripping sweat because of how hot they were. They also looked very tired. I felt great! I had an apple and some chicken for lunch, so I had enough energy to last me all game.

After the spill was cleaned up, our point guard started dribbling the ball down the court. The ball thumped every time it hit the ground. We were only one point behind. My teammate passed the ball to me. I wasn't sure what to do. The clock on the scoreboard was running down quickly, so I threw the ball towards the hoop. The ball made a *swish* noise as it brushed through the inside of the net just before the scoreboard buzzed, indicating the end of the game. I had won the game for my team! I guess basketball isn't so bad after all!

Name: \_\_\_\_\_

Use what you learned about the passage the answer the following questions.

1. What examples of sound energy were present in the passage?

\_\_\_\_\_

2. What examples of heat energy were present in the passage?

\_\_\_\_\_

3. Is there something from the passage that had more than one type of energy?

\_\_\_\_\_

4. The narrator mentions that they ate an apple and chicken for lunch, so she isn't as tired as the other players. What type of energy is she referring to?

\_\_\_\_\_

5. How would the narrator have felt if they only had a bag of chips for lunch?

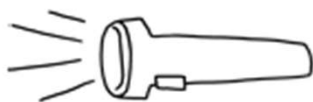
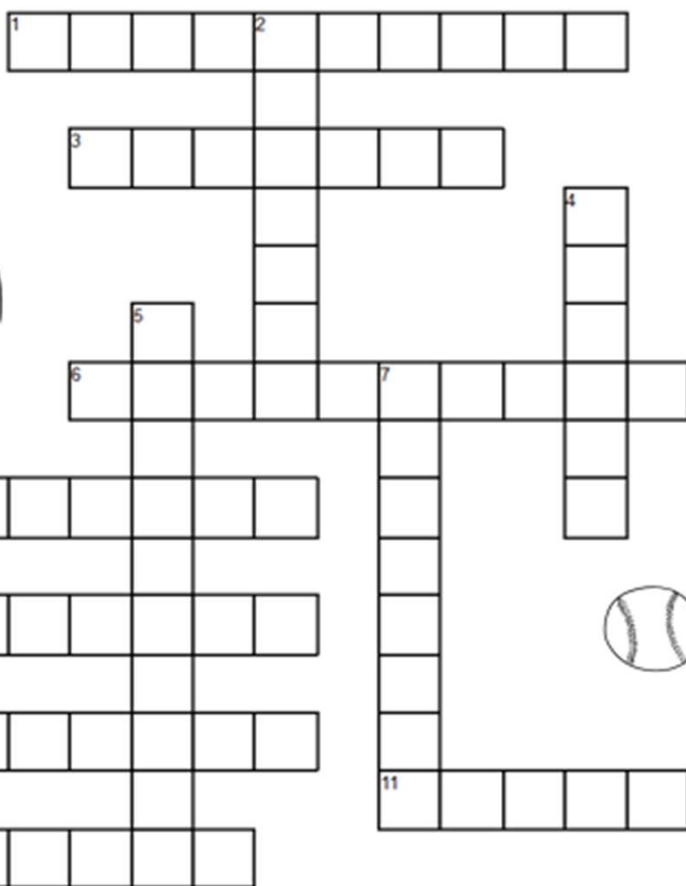
\_\_\_\_\_

6. What other examples of sound energy might you observe at a basketball game?

\_\_\_\_\_

NAME \_\_\_\_\_

## Forms of Energy Crossword Review



### ACROSS

- 1 energy caused by the movement of electrical charges
- 3 The energy of motion
- 6 when light or sound waves bounce off an object
- 8 the ability to cause motion or create change
- 9 an objects potential energy plus its kinetic energy
- 10 The energy on object has because of it position (stored energy)
- 11 energy that can be seen and can travel through space
- 12 travels in waves vibrating through matter

### DOWN

- 2 the energy of moving particles or heat energy
- 4 Sound waves that do not bounce off a material, instead they go into the material
- 5 when light bends as it passes from one material to another
- 7 energy that is stored in substances

