

Key Terms:

1. Science: curiosity in thoughtful action about the world and how it behaves
2. Physical Science: study of the world around us in terms of MATTER & ENERGY
3. Chemistry: study of the structure and make up of matter and changes it undergoes
4. Physics: study of energy and matter & how they interact
5. Why do we study Science? What can we gain? List as many things as you can!!!!  
medicine, tech tools, electronics, weather, safety & protection, military, etc.

Types of Physicists Research:

Choose 2 of the following types of physics and answer the questions below.

Thermodynamics, Optics, Nuclear Physics, Astrophysics, Acoustics, Mechanics, Biophysics, Geophysics

1. Type of Physics: \_\_\_\_\_

2. What does it study? \_\_\_\_\_

3. How does it impact my life? \_\_\_\_\_

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2. What does it study? \_\_\_\_\_

3. How does it impact my life? \_\_\_\_\_

- Thermodynamics - heat → other forms of E (Research & engineering)  
Optics - science of light & vision (optician, lasers, optical fibers)  
Nuclear Physics - study atomic nuclei (nuclear reactor/power plant)  
Astrophysics - branch of astronomy that applies laws to cosmos  
Acoustics - branch of physics deals w/sound (ultrasound, speakers/mics)  
Mechanics - " " " " motion (study car crashes, safety)  
Biophysics - combines physics & biology (life science)