



Chemistry is a Central Science

Section 1.1

Pgs. 2 - 4



What is chemistry?

➔ Chemistry

- Study of all matter and the transformations it can undergo
- In other words, this is a very broad science
 - We will focus primarily on the environment

➔ Matter

- From Conceptual Physics
- Anything that occupies space



Why is it a central science?



Why is it a central science?

- ➔ Chemistry uses the principles of physics and it helps explain biology, earth sciences, and space sciences



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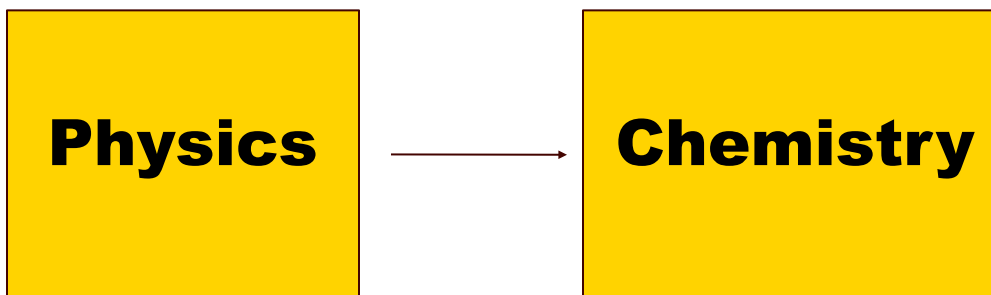
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Physics



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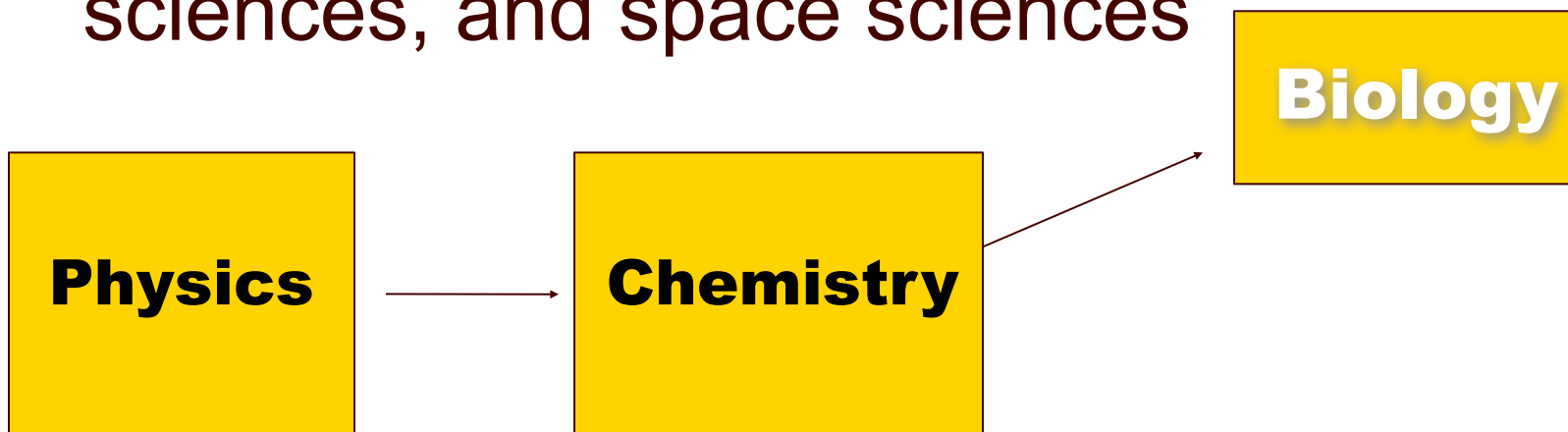
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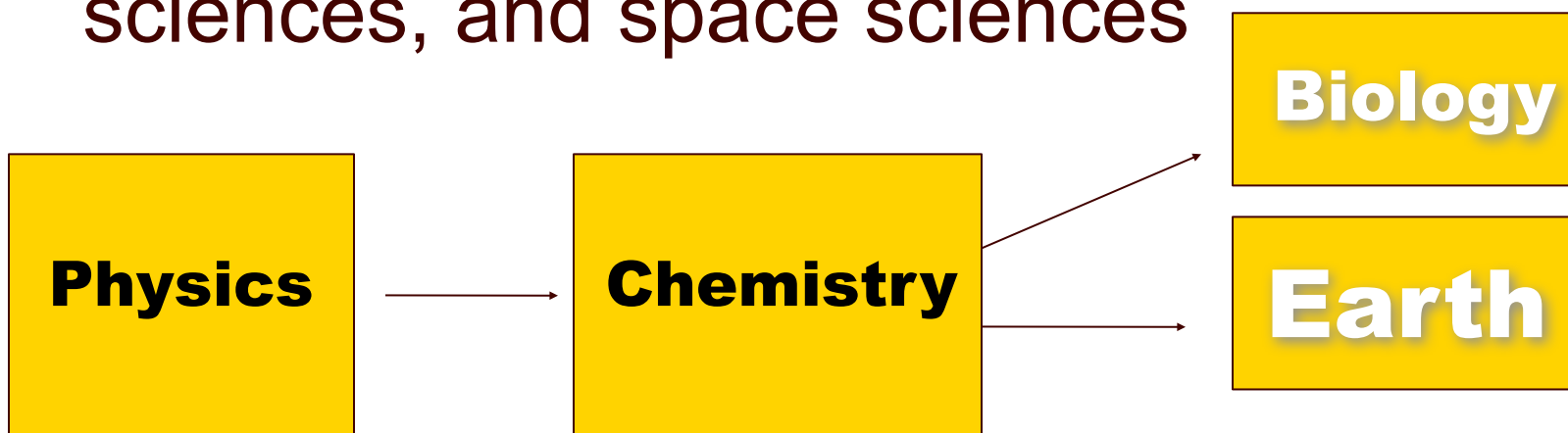
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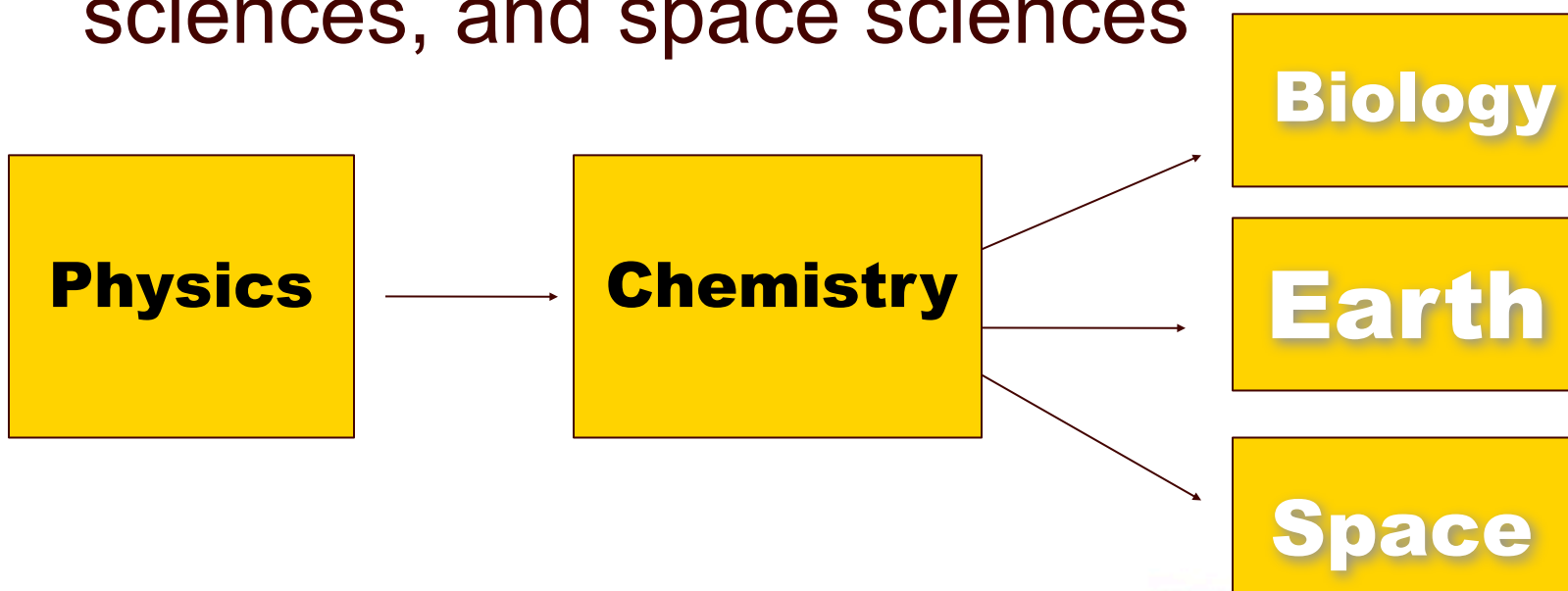
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What are some stereotypes about chemistry as a class?



Why do people think
chemistry is hard?



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➔ Unique vocabulary

- Some words sound like a foreign language which can be intimidating
 - Anion, cation, equilibrium, catalyst



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- ➔ You can't see the microscopic





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➔ Basic research

- Leads us to greater understanding of how the natural world operates
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- Can you think of an example?



What do chemists do?

→ Applied Research

- Research that focuses on practical applications
- Examples?
 - Medicine
 - Food
 - Water
 - Shelter
 - Waste
 - Pollution