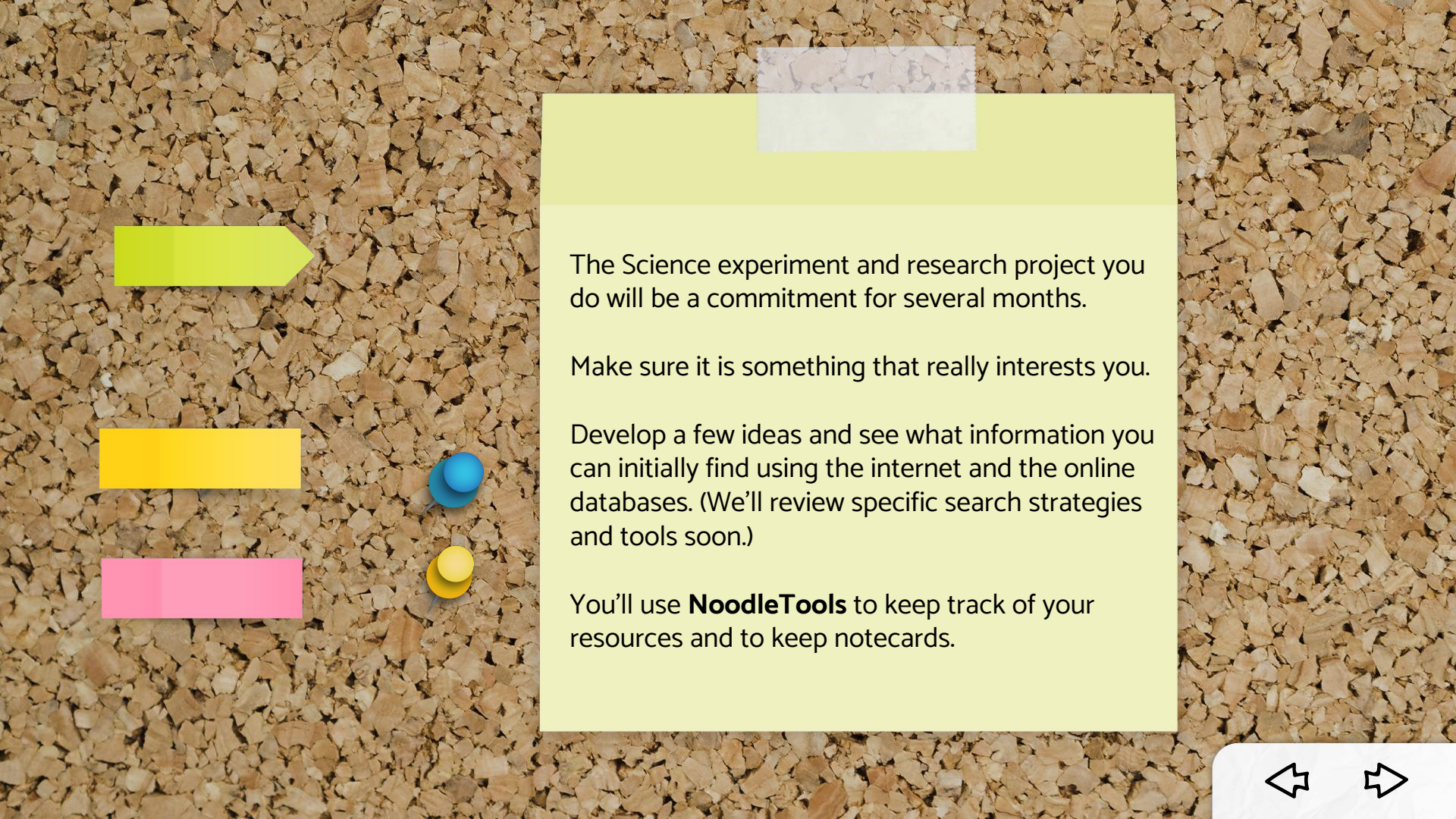




Developing a Science Project Idea

Start with a question that interests you

➡ START!



The Science experiment and research project you do will be a commitment for several months.

Make sure it is something that really interests you.

Develop a few ideas and see what information you can initially find using the internet and the online databases. (We'll review specific search strategies and tools soon.)

You'll use **NoodleTools** to keep track of your resources and to keep notecards.



The point is to
have a
question, not
to have an
answer.



Starting with something that actually interests me.

I wonder if playing music
would impact how big my
plants will get.



Question development

Does playing music
impact the height of
plants?

Now I have a question. It's a little more specific because I indicated height as what I want to measure.

But, there are different types of music.



Refine question

Does playing classical music impact the height of plants?

- Better because I have a specific type of music



Develop variables & revise question

Does playing classical music impact the height of plants?

- I think classical music is mostly strings, piano, or woodwinds. Would that matter? Can I test that?
- How long should I play the music?
- What volume should the music be?



Create hypothesis

If plants are exposed to classical music for three hours a day, then they will grow taller and healthier compared to plants that are not exposed to any music.

This is a first draft of a hypothesis.

What needs to be changed to improve it?



Develop research direction

Research plants and sound

- Classical music and plant growth
- Music effect on plant height
- Sound waves and plant development
- Acoustic influence on plant growth
- Plant growth and sound frequencies
- Plant biology and music
- Effects of sound on plant physiology

We'll practice specific research strategies in another class.



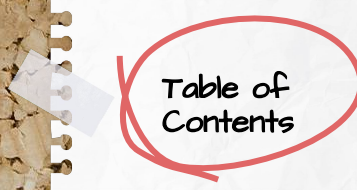
A graphic of a spiral-bound notebook with a white cover and a red circle around the text "Table of Contents".

Table of Contents

➡ Section 1

➡ Section 2

➡ Section 3

➡ Section 4

➡ Credits

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