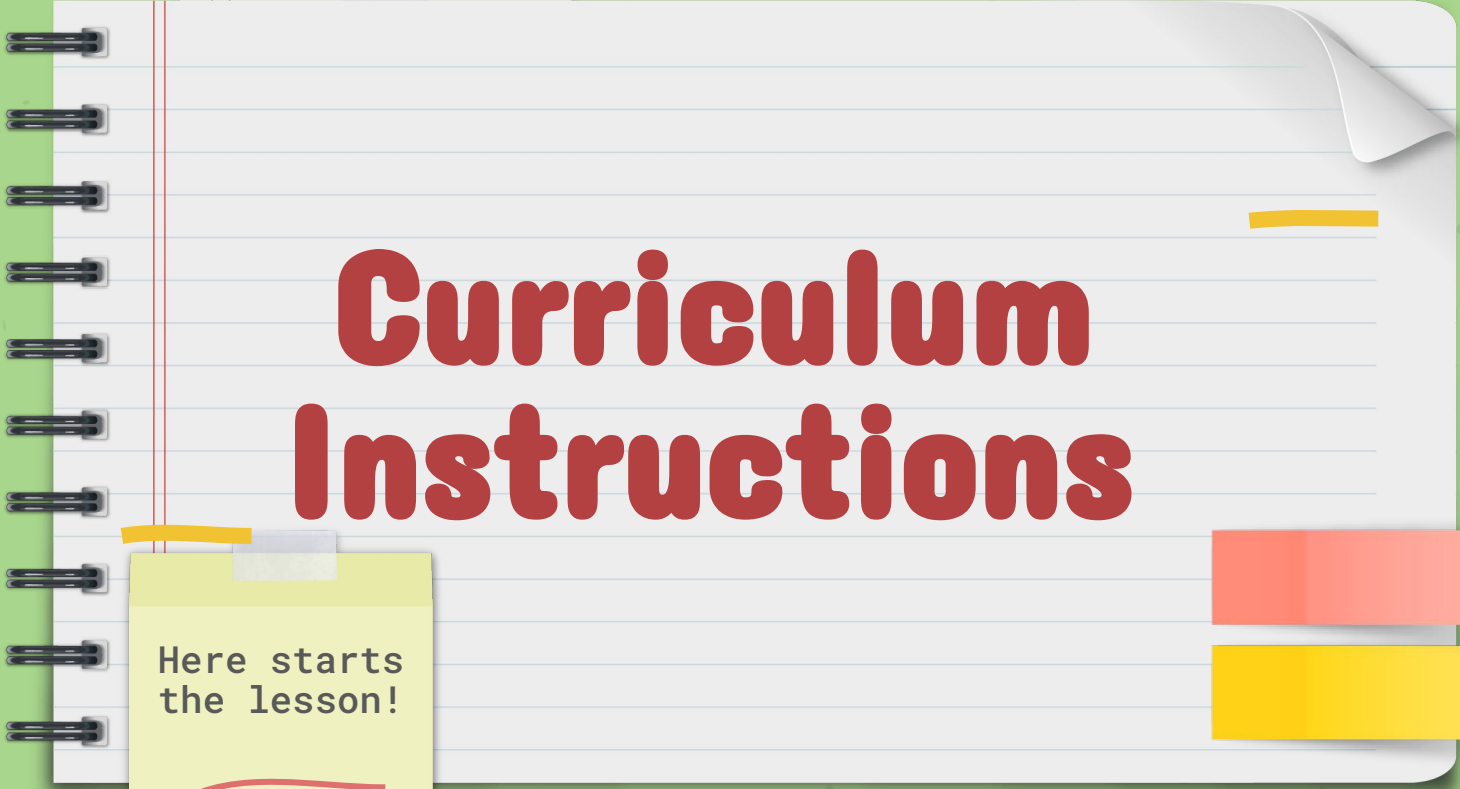




Curriculum Instructions

Here starts
the lesson!

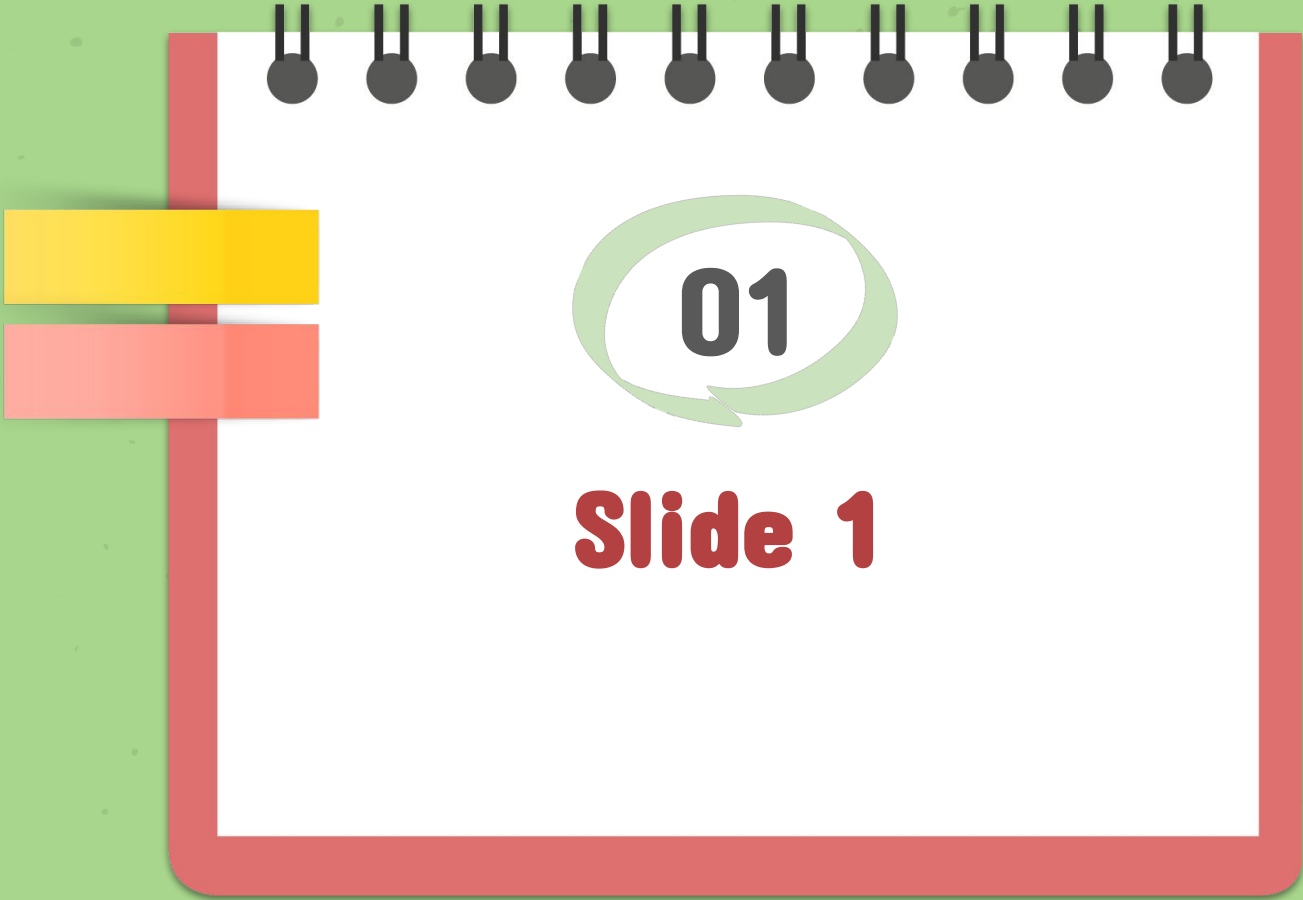
Contents of these slides

1. We will go over how to make the slides, like what each slide should be or include.
2. Also how the slides will be organized and an example for you guys to reference.
3. Legal Use of your Slides

Teach > Do > Inspire

(Your design can be simpler than the showcased one. Instructions over design is prioritized).
(:

Groups allowed.

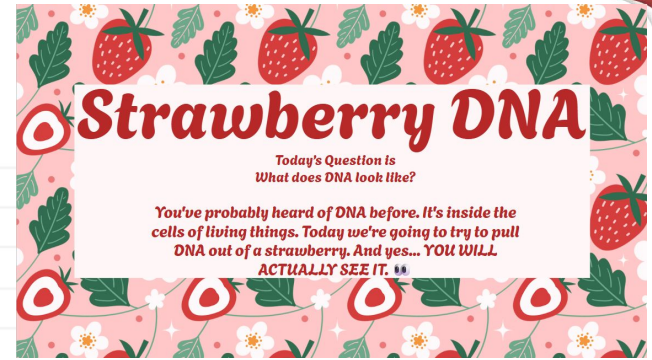


01

Slide 1

Introduction

Introduce your topic and make it sound exciting, were presenting it to elementary school students make it sound fun and easy to understand.



Example

Slide 2



Example

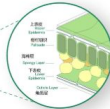


What is DNA?

DNA = Instructions for Life

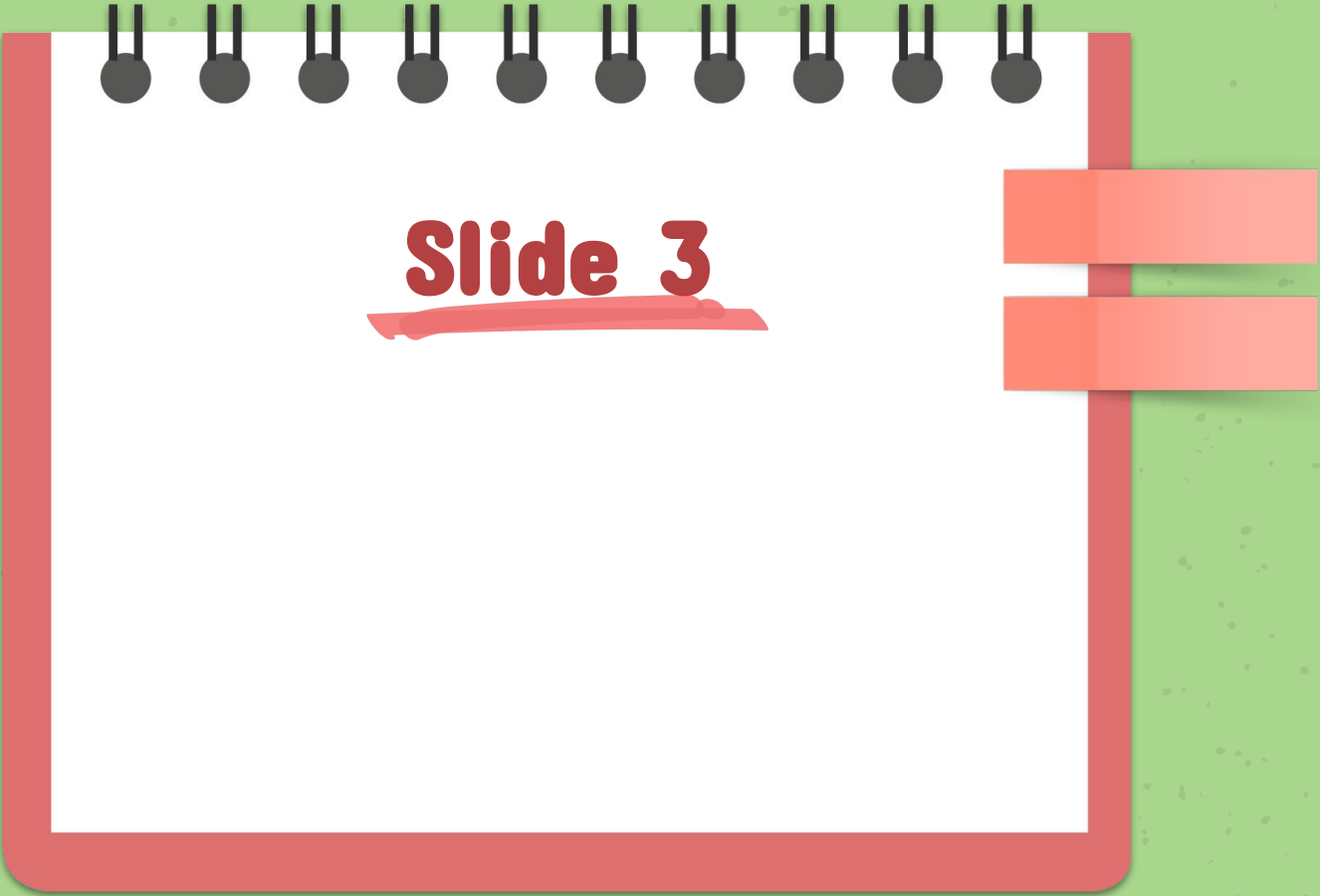
Think of DNA like an instruction book. It contains information that helps cells know how to work. DNA is found inside the cells of plants, animals, and other living things. You have DNA. So do: 🍓 Strawberries, 🐶 Dogs, 🌳 Trees, 🐬 Dolphins, 🦋 Butterflies.

Our question to you is If strawberries have DNA too, do you think you can get it out?



Explanation of Topic (P.1)

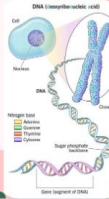
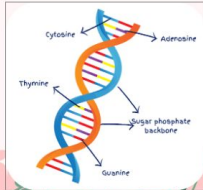
Clearly explain the basics of your topic, what exactly are you trying to teach the students, add emojis to make it more fun if possible and pictures.



Slide 3

How do DNA and Cells work?

Your body is made up of tiny cells. Think of your body like a lego set. The cells are the building blocks. You have trillions of cells, and different cells have different jobs. For example: ❤️ Heart cells help your heart beat. 🧠 Brain cells help you think. 💪 Muscle cells help you move. 🩸 Blood cells carry oxygen. But how does a cell know what to do? That's where DNA comes in. 🧬 DNA = Instructions DNA contains instructions that tell your cells how to build the proteins they need and how to work. CELL → contains DNA → DNA contains instructions → CELL uses those instructions So when we extracted DNA from our strawberry... We were actually pulling out some of the instructions found inside its cells!



Continue explaining your topic, don't condense all your info onto one slide, use multiple slides to continue your info if needed.

Explain Your Topic

P.2

Example

What do we need? (Materials) Each group will get...		
02	02	01
Strawberries 1/2	Teaspoons of dish soap 2	Teaspoon of salt 1
Cup of Water 1/2	Plastic Cups 1	Coffee Filter 1
Cup of cold rubbing alcohol	Coffee Stirrer	Resealable Plastic Bag
★ Warning: Please Do Not Eat/drink any of the given materials		

Slide 4

- For this slide you want to explain your materials, just list down what materials are required.

Slide 5

This slide start presenting your instructions for how your experiment will go, make it simple and easy to understand, add photos to help them visualize.



Step 1: Break open the strawberry!

Instructions:

1. Remove the green leaves.
2. Put 2 strawberries into the plastic bag.
3. Seal the bag.
4. Gently smash the strawberries for about 2 minutes. Try to turn the strawberries into a smooth mush.

WHY? The strawberry is made of cells. Smashing helps break the cells apart and release their contents.



Slide 6-7 or 8

Instructions Cont.

Continue explaining your instructions if needed, this slide is not necessary.



Step 2: Make the DNA Solution

Instructions: In a cup, add: $\frac{1}{2}$ cup water 2 teaspoons dish soap 1 teaspoon salt Gently mix. Don't make a ton of bubbles.

What does it do?

- 🌸 Dish soap helps break apart cell membranes.
- 🧂 Salt helps separate DNA from other materials. 💧 Water helps everything mix together. Then pour the mixture into your strawberry bag.

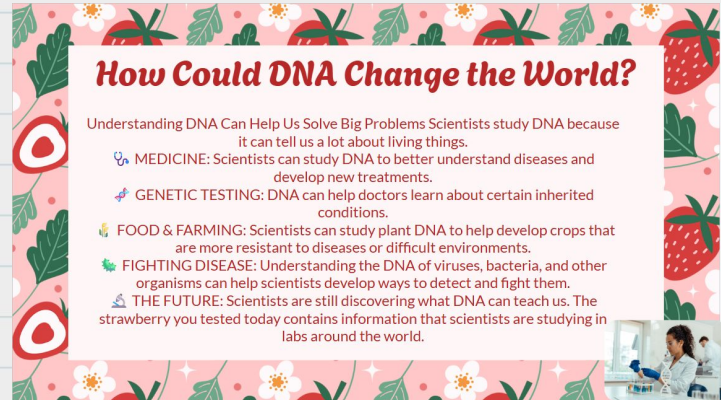
Final Slide

Connect to how this could change the world.

Just give a brief summary of how learning this can change the world like what parts of the world can it affect 3-4 sentences. Then explain the path students can take to get there.

Slide Reference

Slide Submit Form



How Could DNA Change the World?

Understanding DNA Can Help Us Solve Big Problems Scientists study DNA because it can tell us a lot about living things.

-  **MEDICINE:** Scientists can study DNA to better understand diseases and develop new treatments.
-  **GENETIC TESTING:** DNA can help doctors learn about certain inherited conditions.
-  **FOOD & FARMING:** Scientists can study plant DNA to help develop crops that are more resistant to diseases or difficult environments.
-  **FIGHTING DISEASE:** Understanding the DNA of viruses, bacteria, and other organisms can help scientists develop ways to detect and fight them.
-  **THE FUTURE:** Scientists are still discovering what DNA can teach us. The strawberry you tested today contains information that scientists are studying in labs around the world.

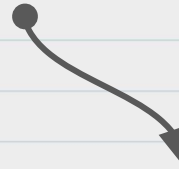


Thank You & Good Luck!

Contact your ASCENT Club President if you have any questions, or contact info@ascentclub.org

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Do This To Get Hours



Slide Submit Form