Tips before you start using this material:

- You can change the part of pH testing according to your own project. However, according
 to our experience, fun experiments are more welcomed than knowledge itself.
- You can tailor the central dogma to a made-up story, like a story of a worker who has loads of functional cards (genes) but don't know how to realize them.
- We recommend an open sharing after kids have finished designing new life. Their works
 are really inspiring.
- Get these ready before giving this lecture:
 - Powerpoint related to this topic;
 - Background research in types of eyelid, earlobe, Iris and dimple;
 - Color pens for kids to draw;
 - pH test strips;
 - Glass rods for pH testing;
 - Lemonade, water, normal soil and saline-alkaline soil;

Be A Life Designer!

• What is gene? Recommended finishing time: after class

Explore these characteristics in your family!

	Eyelid	Earlobe	Iris	Dimple
	Single or double fold?	Free or attached?	Color?	Smile to find out!
Dad				
Mom				
I				

• How do our genes function? Recommended finishing time: 15 minutes



RNA

PROTEIN

aimed products

functional cards

order forms

Draw their relationships according to the lecture!

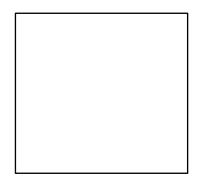
Have you understood what is Central Dogma? Be free to ask if you haven't yet!

• What could these be? Recommended finishing time: 15 minutes

Just imagine and draw the final creature out!



-





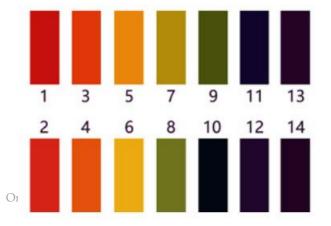
• Let's design! Recommended finishing time: 10 minutes

Use your imagination and design a new creature yourself!

	Document of my first life design Name:
	Abilities:
	Inspirations:

Below is the content related to our project, you can skip this part

• **Test the pH!** Recommended finishing time: 10 minutes



Paste your results here and record the pH level

Lemonade Water

Soil Sample 2 Soil Sample 2