

KOHL'S
Design
It! Lab

QUARTER FOUR

DESIGN IT!

step 1
IDEATION

step 2
GRAB YOUR MATERIALS

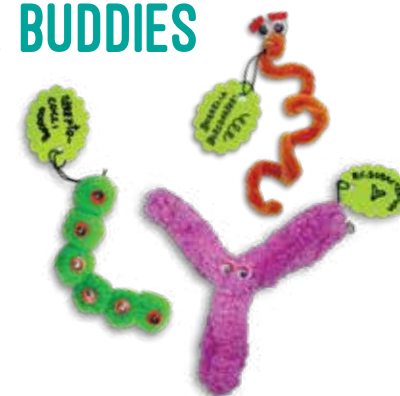
step 3
MAKE A PROTOTYPE!

VISIT [DISCOVERYWORLD.ORG](https://discoveryworld.org) FOR MORE INFO
USE [#KOHLSDesignITLab](https://twitter.com/KOHLSDesignITLab) TO SHARE YOUR PROJECTS!

OCTOBER: BACTERIA BUDDIES

AGES 5+ HOT GLUE
15-20 MINUTES

Craft fun, personality filled bacteria models and learn about the tiniest and oldest lifeforms on earth.



WHAT ARE BACTERIA?

Bacteria are **Prokaryotes**, which means they don't have a nucleus or some of the other parts that our cells do. Prokaryotes are some of the oldest lifeforms on earth, with fossils dating back to 3.5 billion years ago.

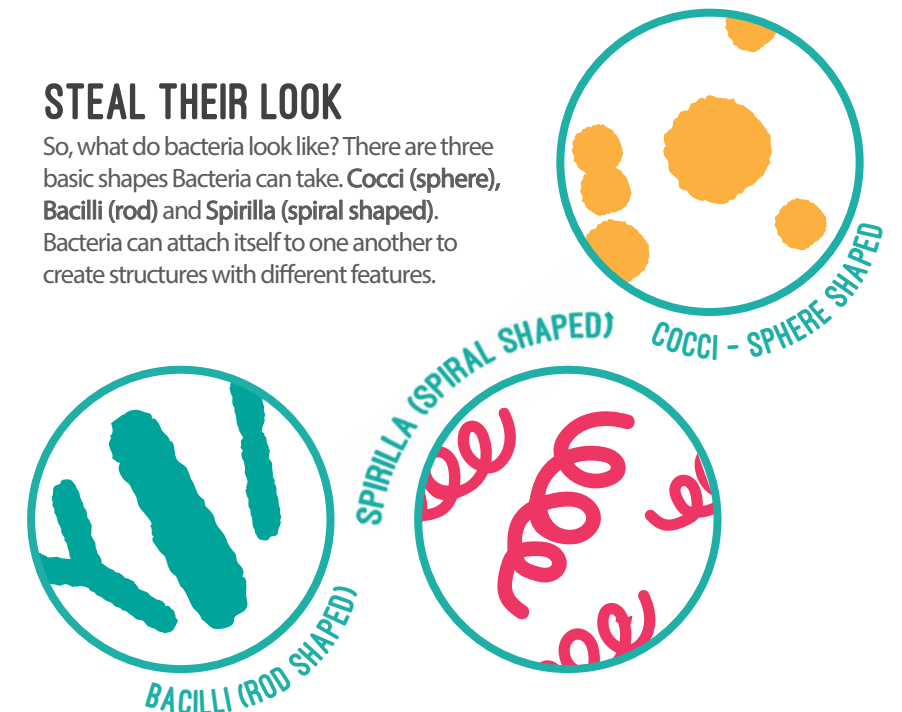
FRIEND OF FOE?

Both! Bacteria can be **parasitic** and hurt us like with an infection or **symbiotic** and help us like when they assist in digesting our food. Some bacteria do nothing. The average adult human has over 39 trillion microbial organisms living inside them. We can manage most common bad bacteria by washing our hands, cooking our food, and disinfecting cuts and wounds.



STEAL THEIR LOOK

So, what do bacteria look like? There are three basic shapes Bacteria can take. **Cocci** (sphere), **Bacilli** (rod) and **Spirilla** (spiral shaped). Bacteria can attach itself to one another to create structures with different features.



QUESTIONS TO ASK YOURSELF

- What basic bacterial shapes are my bacteria made of?
- Is the bacteria I'm making good or bad?
- If its good for me, how do I support it?
- If it is bad for me how can I keep it away from myself and others.

