Fun With Bacteria!

Date: Name:

**Objective**:

* Understand the forms and arrangements of bacteria.

**Materials**:

* Playdough

Part 1 – Forms of Bacteria

* Bacteria come in four forms.
1. Coccus – spherical 
2. Bacillus – rod-shaped, where the length is greater than the width
3. Spirillum – spiral and corkscrew-shaped 
4. Vibrio – comma shaped 

Activity 1:

Using your playdough (please don't eat it!), model the four forms of bacteria. Also, draw and label them in the circles below.

Part 2 – Arrangement of Bacteria

* Cocci can be arranged in many different ways:
1. Coccus – one singular coccus 
2. Diplococcus – two cocci side by side (di means two) 
3. Streptococcus – a chain of cocci 
4. Tetrad – four cocci in the shape of a square 
5. Staphyloccus – many cocci in the shape of a bunch of grapes 
6. Sarcina – eight cocci in the shape of a cube
* Bacilli can be arranged in three different ways:
1. Rods or bacillus – singular 
2. Diplobacilli – two bacilli side by side 
3. Streptobacilli – chains of bacilli 

Activity 2:

1. Create all six arrangements of coccus out of your playdough (a-f). Draw them here as well.
2. Create all three arrangements of bacillus out of your playdough (a-c). Draw them here as well.

**Quick Quiz**:

1. A group of eight cocci in the shape of a cube are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. A chain of rods is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The corkscrew shape of bacteria is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. = \_\_\_\_\_\_\_\_\_\_\_\_\_.