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| **Biology 11**  **Bacterial Reproduction** | **Name: Date:**  **Block:** |

There is one way that bacteria reproduce called **Binary Fission**:

* Parent cell divides into two identical daughter cells
* Results in two daughter cells with identical genomes
* Form of asexual reproduction

Using playdough, paper towels and pen/pencil model at least 3 steps of binary fission. Show Ms. Sandhu when it’s complete.

Draw out your model in the space below:

**Conjugation** is the means of genetic transfer:

* A hollow bridge forms between two bacteria cells
* A plasmid (ring of DNA) from the donor cell is duplicated and sent through the sex pili to the recipient cell
* End result = both donor and recipient cells have the plasmid.
* Conjugation results in an exchange of genetic material, which increases genetic diversity in populations of bacteria.
* In a way this can be looked at as sexual reproduction… even though new bacteria cells are not being formed.

Using playdough, paper towels and pen/pencil model at least 3 steps of binary fission. Show Ms. Sandhu when it’s complete.

Draw out your model in the space below: