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| **Name:** |
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| **Group:** |
| 3B-3 |
| **Basic Science Question:** |
| What are the mechanisms of tooth movement? |
| **Report:** |
| The concept of bone metabolism is the continual cycle of bone growth and resorption. There are two forces required to initiate bone movement. This includes direct pressure on the tooth, which will cause bone resorption. It also includes tension on the tooth, which will cause bone deposition. Osteoblasts specifically are the cells that lay down bone, and osteoclacts resorb the bone. External forces are the cause of tooth movement, meaning the tooth does not generate these forces itself. These forces can either come from primary dentition transitioning to permanent dentition or from orthodontic treatment.  |
| **References:** |
| Wise, G. E., & King, G. J. (2008). Mechanisms of tooth eruption and orthodontic tooth movement. *Journal of dental research*, *87*(5), 414–434. https://doi.org/10.1177/154405910808700509 |