## ACTIVITY 3D: HEALTHY BONE REMODELING — THE OSTEO BLASTER/CLASTER WHEEL -STUDENT WORKSHEET

## **HEALTHY BONE REMODELING**

After listening carefully to the description of healthy bone remodeling, complete the following statements as you review the events depicted in *The Osteo Blaster/Claster Wheel* that you have constructed. Refer to the key for help with terms.

| 1.        | During the Activation Phase, the are attracted to the remodeling sites.  |
|-----------|--|
| 2.        | The pre-osteoclasts become fused and form osteoclasts.   |
| 3.        | During the Resorption Phase, the osteoclasts dig out a cavity called a pit.  |
| 4.        | As the pit is being dug out, an important mineral,, is absorbed into the blood for use by the body.  |
| 5.        | After the pit is completed, the disappear.   |
| 6.        | In the Reversal Phase, cells appear along the burrow or pit.   |
| 7.        | The cells along the pit prepare the surface for new bone   |
| 8.        | During the Formation Phase, the osteoblasts are to the surface of the pit or burrow.   |
| 9.        | The osteoblasts busy themselves with replacing the removed bone tissue with a new soft matrix, or  |
|           | This phase must be called the Phase because the new matrix becomes mineralized with calcium and phosphorus thus creating new bone.   |
| 11.       | The remodeling site (now new bone tissue) remainsuntil the next bone remodeling cycle begins.  |
| No<br>bet | The remodeling site (now new bone tissue) remains until the next bone remodeling cycle begins.  w, use your wheel to try to teach someone else about normal bone remodeling and the balance ween the work of the osteoclasts and osteoblasts in bone tissue. |