|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Longnose Butterfly Fish Suction Feeding*** | | | | |
| Time 0 | **Cone A** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 | N/A |  |
| b | 14.9 |
| **Cone B** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 | N/A |  |
| c | 31.2 |
| d | 1.1 |
| e |  |
| ***Volume of feeding mechanism before expansion (t0)*** | | |  |
| Time 1 | **Cone A** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 | N/A |  |
| b | 14.9 |
| **Cone B** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 |  |  |
| c | 31.6 |
| d | 1.1 |
| e |  |
| ***Volume of feeding mechanism at maximum expansion (t1)*** | | |  |
| ***Volume change during feeding event ()*** | | | |  |
| ***Duration of feeding event (sec)*** | | | | 0.022 |
| ***Area of mouth at maximum expansion (t1) ()*** | | | |  |
| ***Velocity of water flow into mouth (mm/sec)*** | | | |  |
|  | | | |  |
| ***Longnose Butterfly Fish Suction Feeding Answer Key*** | | | | |
| Time 0 | **Cone A** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 | N/A | 390.1 |
| b | 14.9 |
| **Cone B** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 | N/A | 1036.0 |
| c | 31.2 |
| d | 1.1 |
| e | 8.8 |
| ***Volume of feeding mechanism before expansion (t0)*** | | | 1426.1 |
| Time 1 | **Cone A** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 | N/A | 390.1 |
| b | 14.9 |
| **Cone B** | **Length (mm)** | **Area ()** | **Volume ()** |
| a | 5.0 | 3.8 | 1049.3 |
| c | 31.6 |
| d | 1.1 |
| e | 8.9 |
| ***Volume of feeding mechanism at maximum expansion (t1)*** | | | 1439.4 |
| ***Volume change during feeding event ()*** | | | | 13.3 |
| ***Duration of feeding event (sec)*** | | | | 0.022 |
| ***Area of mouth at maximum expansion (t1) ()*** | | | | 3.8 |
| ***Velocity of water flow into mouth (mm/sec)*** | | | | 158.8 |
|  | | | |  |