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| --- |
| ***Snook Suction Feeding*** |
| Time 0 | **Cone A** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 2.1 | N/A |   |
| b | 27.6 |
| **Cone B** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 2.1 | N/A |   |
| c | 12.3 |
| d | 1.8 |
| e |   |
| ***Volume of feeding mechanism before expansion (t0)*** |   |
| Time 1 | **Cone A** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 7.0 | N/A |   |
| b | 28.9 |
| **Cone B** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 7.0 |  |   |
| c | 12.3 |
| d | 5.9 |
| e |   |
| ***Volume of feeding mechanism at maximum expansion (t1)*** |   |
| ***Volume change during feeding event (***$ mm^{3}$***)*** |   |
| ***Duration of feeding event (sec)*** | 0.036 |
| ***Area of mouth at maximum expansion (t1) (***$ mm^{2}$***)*** |   |
| ***Velocity of water flow into mouth (mm/sec)*** |   |
|  |  |
| ***Snook Suction Feeding Answer Key*** |
| Time 0 | **Cone A** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 2.1 | N/A | 127.5  |
| b | 27.6 |
| **Cone B** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 2.1 | N/A | 147.2  |
| c | 12.3 |
| d | 1.8 |
| e | 73.8 |
| ***Volume of feeding mechanism before expansion (t0)*** | 274.7  |
| Time 1 | **Cone A** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 7.0 | N/A | 1482.9  |
| b | 28.9 |
| **Cone B** | **Length (mm)** | **Area (**$mm^{2}$**)** | **Volume (**$mm^{3}$**)** |
| a | 7.0 | 109.4  | 1611.5  |
| c | 12.3 |
| d | 5.9 |
| e | 66.0 |
| ***Volume of feeding mechanism at maximum expansion (t1)*** | 3094.4  |
| ***Volume change during feeding event (***$ mm^{3}$***)*** | 2819.7 |
| ***Duration of feeding event (sec)*** | 0.132 |
| ***Area of mouth at maximum expansion (t1) (***$ mm^{2}$***)*** | 109.4  |
| ***Velocity of water flow into mouth (mm/sec)*** | 716.2 |
|  |  |