Crab Behavior

Lauren, Zac, Michael
How does crab behavior change during high tide vs. low tide?
Background Information

• Many living organisms have a circadian clock
  • plants, animals, fungi, bacteria
• This discovery was a major breakthrough.
• Purple shore crabs: are found at Richardson Bay have a circadian clock

• Predators include ocean birds
The main predators of these crabs are ocean birds.

Crabs tend to stay hidden either under rocks or in the sand.
Hypothesis

Crabs will be more active in high tide
Methods

• Large container with sand, beach rocks, and water from the bay

• We will observe and compare crab behavior

• We will observe 8 crabs
## Results

<table>
<thead>
<tr>
<th>Low Tide</th>
<th>High Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3) Large crabs (4) Small crabs (1) Medium crab</td>
<td>(3) Large crabs (1) Small crabs</td>
</tr>
<tr>
<td>At first stayed deeper on dry land water and then moved a burrowed to shore water. but others went and stayed with large crabs</td>
<td>Went under rocks immediately little into the or moved a little into the</td>
</tr>
<tr>
<td>After a while the crabs moved</td>
<td>Stayed under water immediately</td>
</tr>
<tr>
<td></td>
<td>Went to deeper rocks and burrowed</td>
</tr>
</tbody>
</table>
Conclusion

• Crabs have higher activity in high tide than in low tide.

• We believe that the crabs had higher activity in high tide than in low tide because they thought they had protection from predators.
VIDEOS

High Tide

Low Tide
Acknowledgements

- Rachel
- CAMEOS organization
- Ms. Patterson