## Scoring Rubric

# South Cove Inquiry

Name:	·
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Temperature: \_\_\_\_\_

Weather:

Low Tide:

Time:\_\_\_\_\_

#### WHY are we here?

Throughout the year we have studied islands. An island is a piece of land smaller than a continent and entirely surrounded by water. Since we are not able to access any islands near our school we are going to explore the tide pools of South Cove.

Tide pools, like islands, are isolated. The word isolated means a person, organism, or group that has been separated, as by geographic, ecologic, or social barriers from others.

You will construct your own inquiry dealing with the tide pools at the South Cove. You will work independently, with a partner, and in a small group to complete the inquiry. Be prepared to share your results with the rest of the class at a later date.

Materials that will be available for you to use include the following:

- Meter stick
- Ruler
- Thermometer
- refractometer.-measures salinity
- magnifying glass
- tape measure
- clipboard
- Tide pool identification card

#### Notes and Drawings

#### Reflection

If needed, use a separate sheet of paper.

1. Compare and contrast a tide pool and an island.

۷.	. How do you think isolation affects the		
	organisms that live in these isolated habitats?		

3. What is the Scientific Method?

1.\_\_\_\_4.\_\_\_

2.\_\_\_\_\_5.\_\_\_

3.\_\_\_\_\_6.\_\_\_

4. What could be done to improve this inquiry?

5. What did you enjoy most about this inquiry?

#### **Observations**

What do you notice as you observe the organisms in the different tide pools?

LIST a minimum of	observations in the space below.
(Drawing box)	
(S. a.m.g zen)	

#### Questions

As you observed the tide pools what questions have you come up with? (Need help-What could you investigate using the tools that you have?)

#### Results and Conclusions Continued

What other questions or different ideas do you have after looking at the results?

What would you test next time?

Are there any other comments or thoughts you would like to share?

#### Results and Conclusions

If needed, use a separate sheet of paper.

What does your data tell you?

Was your hypothesis correct? Why? (Be specific and use complete sentences.)

### **Hypothesis**

Which **testable** question does your group want to investigate? (You need to collect and graph data.)

#### **Predictions**

What do you think will happen? Why? Be specific.

What would you do differently if you did this inquiry again? (Be specific and use complete sentences.)

## Final Hypothesis

This is the hypothesis that you are going to test; it does not have to be exactly the same as those of your other group members.

#### Materials

List all the materials that you will need to complete this inquiry.

## Graph Your Data

Don't forget to label axes, units (cm or Celsius), the title, and a key. (Graph types-line, bar, or pictograph)

#### Procedure

List how you are going to carry out your inquiry. Your procedure needs to be specific enough, so that someone else could use your steps and replicate the same data.

<u>Data</u> <u>10</u>

<u>Data</u>

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## Notes and Drawings

## <u>List of Ten Common</u> <u>Organisms Present in the</u> <u>Tide pools at South Cove</u>

- 1. Anemone
- 2. Hermit Crab
- 3. Snail
- 4. Fish (Tide Pool Scuplin)
- 5. Coralline Alga
- 6. Purple Sea Urchin
- 7. Shore Crab
- 8. Rainbow Seaweed
- 9. Starfish
- 10. Mussel

## Notes and Drawings

#### Tide Pool Etiquette

As we observe organisms remember to be respectful. Carefully touch and examine them without causing harm. Place them gently back where they came from. After turning over rocks to observe organisms, please make sure to gently return the rock to its original position. We **must** leave the tide pools as we found them. **Do Not** remove plants or animals from their habitat.

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Notes and Drawings

Notes and Drawings

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