Clear Choices, Clean Water

Teacher Instructions

Objective: At the end of the lesson, the scholar will be able to investigate and understand how humans can affect plants and animals. Scholars will also work through the scientific method.

Anticipated Time for Activity: 25 minutes – but the celery should be left out an entire day for best results

Materials Needed:

- Food coloring
- Celery (with leaves for best results!)
- Clear cups
- Water

Procedure:

1. Start by discussing what pollution is. What are some affects of pollution? Then brainstorm some ways that humans pollute water.
2. Pass out cups and celery to each scholar and have them write their name on the cup with a marker. Then pour clear water into each cup (fill the cup ½ – ¾ with water)
3. Go around with food coloring and put 1-2 drops into each cup. Explain that the food coloring represents water pollution. Ask: *What are some examples of water pollution this food coloring can be?*
4. Have scholars put the celery into the cup. Ask: *Is the celery being contaminated in the water? How?*
5. Have scholars begin filling out their lab report. When they fill out the first section of the lab report, have scholars bring their cup to the back of the room and turn in the lab report.
6. At the end of the day (or the morning of the next day) check the celery and record the new data on the lab report. You can leave the celery in longer and check it/record data if you would like.

**the celery should change colors in the leaves

Evaluation: Scholars will share their conclusions on the lab report.

Clear Choices, Clean Water – Lab Report

Problem (you should be able to answer these questions by the end of this experiment)

- How does pollution in today's society affect water in our world? _____

  _____

  _____

- How does water quality affect other aspects of nature? _____

  _____

  _____

  _____

Hypothesis

What do you think will happen to the celery in polluted water?
(write your answer in the format "If the celery is in polluted water, then…")

_____

_____

_____

Data – Observations

Record your observations each time you look at the celery. Draw a picture and write down anything you observe.

_____	_____
_____	_____
_____	_____

Conclusion

Was your hypothesis correct? Explain. _____

_____

_____

If you did the experiment again, what would you change? _____

_____

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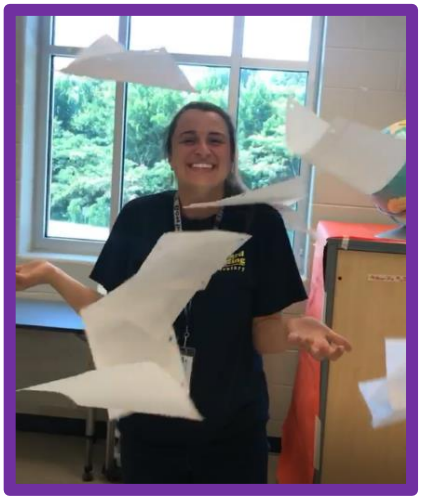

Enjoy!

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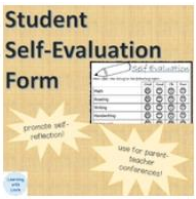

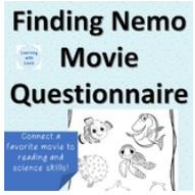

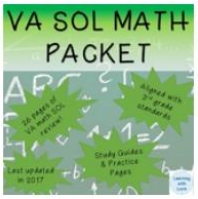

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