

Unit 8

NAME

Class Work

3/20/14

8.4 ThinkReady

SPARK (take out 8.3 HW sheet!)

1. What is an independent variable? *we change/control*
2. What is a dependent variable? *we observe/record/result*
3. Why are oil spills a problem?

toxic to animals, contaminates water
Objective *water P oil NP*

SWBAT understand the ThinkReady assignment
and begin devising a procedure

Agenda:

- SPARK/Objective
- ThinkReady task
- Homework



Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure

ThinkReady Task

- Let's read through the task together

Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure

ThinkReady Task

- In this task, you will investigate the factors that affect the spread of oil in a body of water. You will develop an experiment to investigate the influence of one or more factors on an oil spread. This task asks you to model an oil spill and investigate one or more of your selected variables. You will research relevant information by using your knowledge of properties of matter and bonding
- KEY: Make sure you record all the thinking, justification and explanations for the work you do.

Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure

Hypothesize

- Begin your hypothesize section on a sheet of loose leaf (name on the back) and answer the following:
 - What is this task asking you to do?
 - What are your initial ideas of factors you can test?
 - temp of H_2O
 - Salt in water
 - temp of oil
 - different oil
 - amount of oil

Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure

Quick Note

- In this task, you are carrying out an investigation and writing a lab report on your findings. Your lab report should be based off of the labs we have been doing in Unit 8.
- Testable Question: What is the effect of IV on DV?
- Hypothesis: If, then, because
- Include clear tables and graphs
- In your final report, procedure should be PAST tense
- Conclusion explains all reasoning

↑
Factor

↓
Oil
Spread

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Strategize

- *Explain your plan to gather information and your steps to complete the project.*

Tues = experiment!
Mon 3/5+!

Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure

Identify – homework for tonight!

- *Plan the observations and/or experiments you will need to test your hypothesis or hypotheses. (you may need to do some research to complete this section!)*

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Supplies I Have

- Vegetable Oil
- Pie tins
- Foil trays
- Rulers
- Pipets
- You can bring your own materials!

Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure

COLLECT = run the experiment!

- *You will collect and record your information in an organized way. Make sure you record it in a way that will help you analyze it later.*

Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure

HOMEWORK

Finalize the procedure!

Objective: SWBAT understand the ThinkReady assignment and begin devising a procedure