Scientific Method Study Guide

- Look over/practice from: variables quiz, spiral notes, worksheets, labs

- Scientific method
    - List all steps (Also tell what they are/mean and what order they go in)-

      _____

      _____

      _____

      _____

      _____

      _____

    - Write an experiment to answer a question. (Tell ONLY the PROCEDURE steps for the experiment.)
        - Example: Hank read a book that said potato plants grown in soil grow more potatoes than potato plants grown in mulch. He wants to know if this is true.
        - *Write the procedure steps of an experiment Hank can do to test his hypothesis. Include organized (numbered)p steps, and remember to describe the controls and variable(s).*

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- Draw conclusions from data (be able to look at a table of data and draw conclusions from it)
- Independent variables, dependent variables, controls (control group) – know the definitions of each, and *be able to identify each in an experiment*
    - Independent variable definition:

      _____
    - Dependent variable definition:

      _____
    - Control definition:

      _____

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- Observations vs inferences –know the definitions of each and be able to identify each and make both observations and inferences about a situation/experiment/image
    - Observation definition:

      _____
    - Inference definition:

      _____
-

- Write an observation and an inference about this picture:
    - Observation example: _____
    - Inference example: _____

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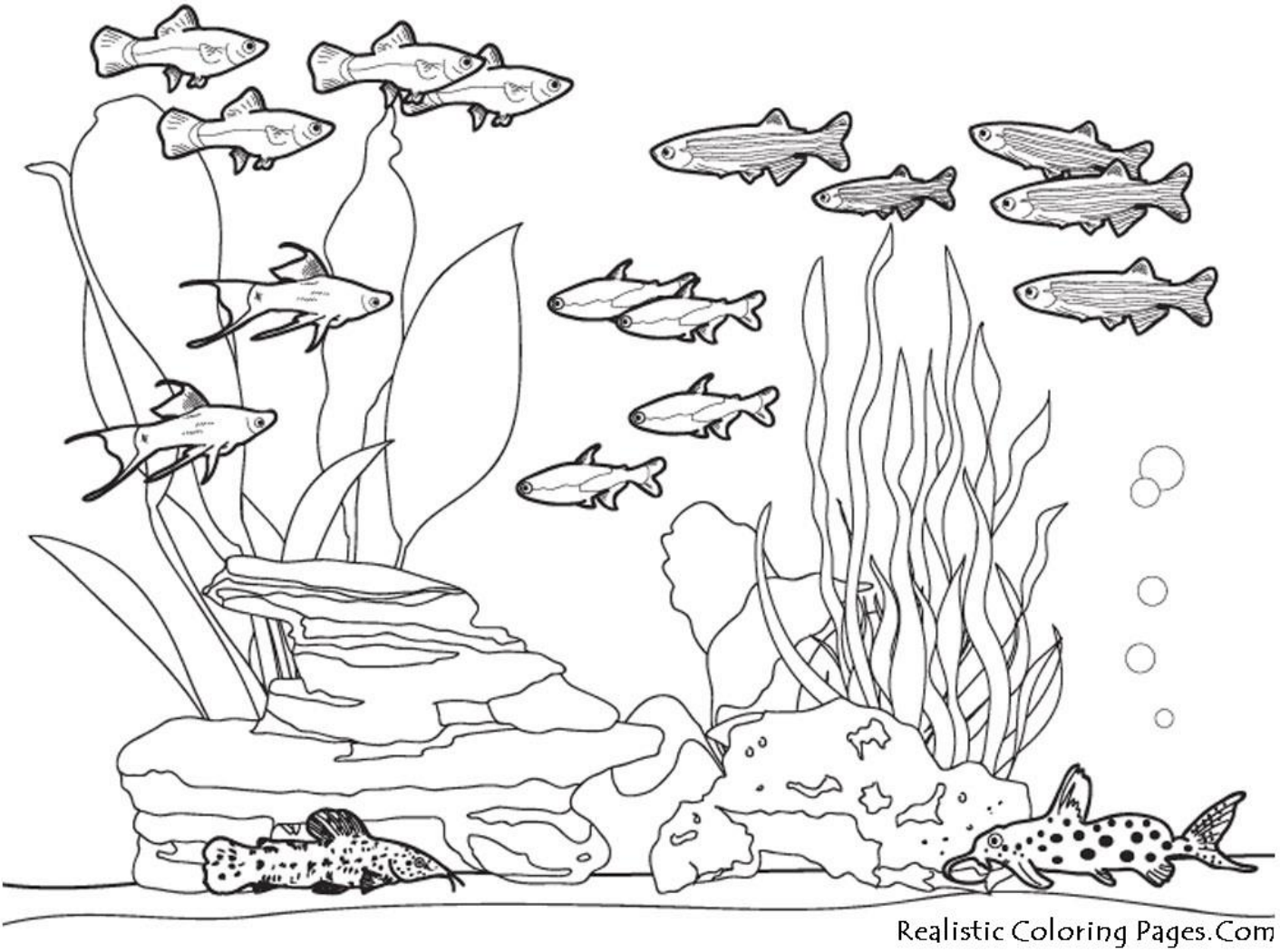
- Qualitative vs Quantitative – know the definitions of each and be able to identify each or give examples of each for a situation
    - Qualitative Data definition:

      _____
    - Quantitative Data definition:

      _____



- Write an example of quantitative data and of qualitative data about this image:
    - Quantitative Data example: _____
    - Qualitative Data example: _____