Laboratory training is an important skill universities offer their students. As a part of that training, students must learn to develop and refine the art of laboratory report writing during their academic careers. Accuracy in this kind of reporting is paramount because the student must explain his or her research, discoveries, as well as the parameters of the experiment.
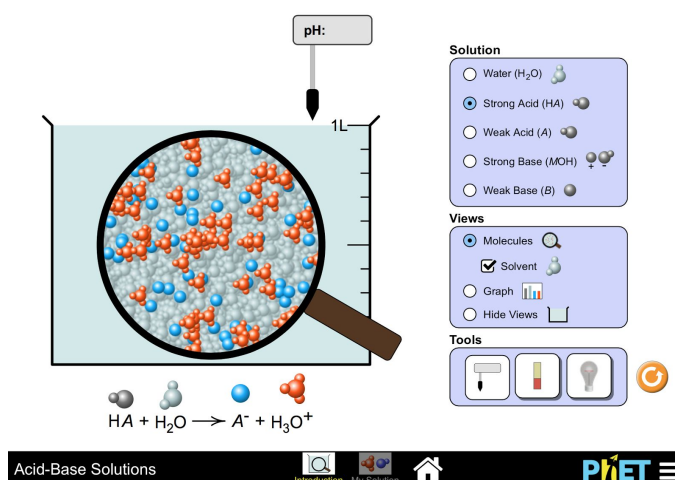
For this session, assume the role of a student participating in a science experiment and compose a lab report. We will be using the HTML5 simulations from PhET (goo.gl/G4QocW) to conduct experiments directly from mobile devices.

First, take a look at what simulation environments are available. Then select one of the simulations and design an experiment in which you can test a hypothesis, collect data, and report your findings.

As part of this activity, be sure to capture screenshots of the selected simulation. These images can be used to illustrate the experimental setup, final results, or to visually represent the data being collected. Include relevant images in your final write-up to support your findings.

$$HA + H_2O \longrightarrow A^- + H_3O^+$$

Finally, compose your lab report as a blog post and be sure to include the following components:

- Selected simulation
- Original hypothesis
- Observations and data collected
- Screenshots of experiment
- Conclusion

As you write, consider how requiring students to write their lab reports in the form of a blog post alters the nature of this assignment.

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