PhET’s Reflection Rubric

Classroom Preparation

☐ Computers were ready for use.
☐ Student-to-computer ratio was effective.

☐ Arrangement of classroom supported student collaboration and teacher facilitation.

Activity Sheet

☐ Students understood activity sheet prompts and tables.
☐ Students were guided by the activity sheet, but not distracted away from sim exploration.

☐ Students used the activity sheet to record observations.
☐ Activity Sheet avoided procedural directions on how to use the sim.

Pre- and Post-Assessment (Optional)

☐ Students understood the questions and prompts.

☐ Teacher was informed by students’ responses.

Reflections:

Topic Introduction and Motivation

☐ Students were engaged by the topic introduction.

☐ Students discussed connections to everyday life experiences, to prior learning, or to future learning.

Sim Play Time

Students:

☐ Were allowed 3-10 minutes for free exploration of the sim.
☐ Fully explored the simulation.
☐ Began asking questions (to themselves or group) about the topic.

Teacher:

☐ Was engaged in observing student-sim interactions.
☐ Utilized student sim use and discoveries during facilitation.

Reflections:
During Sim Activity

☐ The activity aligned with the learning goals.

**Students:**

☐ Read learning objectives out loud.
☐ Discussed learning objectives.

**Student ideas:**

☐ Were solicited and valued.
☐ Generated classroom discussion.

**Students had:**

☐ Time for individual/group sim exploration and sense-making.
☐ Time for classroom synthesis discussions.
☐ Control of their own (or shared) computer.
☐ Opportunities to demonstrate and/or describe relevant sim findings.

**Students were encouraged to:**

☐ Share ideas with their partner/group.
☐ Answer their own questions through experimentation and partner/group discussion.
☐ Actively participate in group and class discussions
☐ Construct arguments while communicating with their peers.
☐ Infer from evidence found during the sim use.
☐ Discuss the nature of science (e.g. use of models).
☐ Reflect on what they learned, and the learning process.

**Teacher:**

☐ Integrated checks for understanding to inform instruction.
☐ Utilized differentiation/extension opportunities effectively.
☐ Responded to suggestions and confusions appropriately and effectively.

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**Reflections:**

**Areas for facilitation improvement:**

1)

2)

3)

**Standout student questions and ideas:**

1)

2)

3)