

Date: _____ Teacher: _____ Class Period: _____ Sim Activity: _____

PhET's Reflection Rubric

Classroom Preparation

- | | |
|---|---|
| <input type="checkbox"/> Computers were ready for use. | <input type="checkbox"/> Arrangement of classroom supported student collaboration and teacher facilitation. |
| <input type="checkbox"/> Student-to-computer ratio was effective. | |

Activity Sheet

- | | |
|--|--|
| <input type="checkbox"/> Students understood activity sheet prompts and tables. | <input type="checkbox"/> Students used the activity sheet to record observations. |
| <input type="checkbox"/> Students were guided by the activity sheet, but not distracted away from sim exploration. | <input type="checkbox"/> Activity Sheet avoided procedural directions on how to use the sim. |

Pre- and Post-Assessment (Optional)

- | | |
|---|---|
| <input type="checkbox"/> Students understood the questions and prompts. | <input type="checkbox"/> Teacher was informed by students' responses. |
|---|---|

Reflections:

Topic Introduction and Motivation

- | | |
|---|---|
| <input type="checkbox"/> Students were engaged by the topic introduction. | <input type="checkbox"/> 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.

Reflections:

Areas for facilitation improvement:

1)

2)

3)

Standout student questions and ideas:

1)

2)

3)

Date: _____ Teacher: _____ Class Period: _____ Sim Activity: _____
