

Unit 4 | Handout 120 | Lesson 6: Modeling the Effects of Air Pressure on Cloud Formation

Purpose: Model and describe the air pressure conditions under which clouds form.

Guiding Questions: How does air pressure affect cloud formation?

Pre-investigation. Answer the following questions before beginning the 6.2 investigation.

1. What are the “ingredients” for cloud formation? (See p. 98 for assistance)
2. How could you create these conditions in your bottle?
3. If you want to test how air pressure affects cloud formation, how could you create high pressure in the capped bottle?
4. How could you create low pressure in the bottle?

Prediction. Under which condition do you believe the cloud will form: under high pressure or low pressure? Why? Support your prediction with evidence from our previous investigations/data collection activities.

Procedure. See steps 5-7 on p. 101 for the procedure for this activity. Review this before beginning the investigation.

Name

Period

Date

Reflecting.

1. Under what conditions were you able to create a cloud in your bottle?

2. Why did the cloud form under these conditions?