

Name: Dave Kobliska

Title: Making a Barometer

Target Audience: 7–12-year-olds

Learning Outcome: Learners will construct a simple barometer and observe it to make weather predictions.

Scene: I – Establishing Exterior, Introduce “Sara”

Shot Angles



1. Camera A



2. Camera B



15. Camera A



16. Camera C



17. Camera D

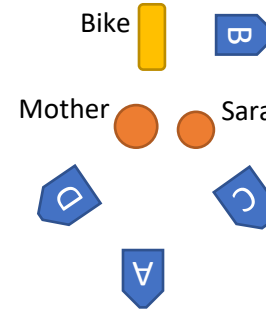


18. Camera C



21. Camera A

Lighting & Camera Setup



Ambient Daylight Only



Shot List

1. Camera A
LS (ES) *Location shot at front of house*
2. Camera B
MS + Pan R *with Sara running in*
15. Camera A
LS *Mother and Sara talking*
16. Camera C
MS *Mother talking to Sara*
17. Camera D
CU (RS) *Sara listening to Mother*
18. Camera C
MS *Mother and Sara walking to house*
21. Camera A
LS *Sara returns home on bike*

Narration / Dialogue

1. Everyone in the Jacobs family were counting the days to the annual reunion picnic.
2. But no one more than Sara.
15. Mother took some time to explain about their upcoming experiment and why a barometer could help predict the weather.
16. She said that if the air pressure was high, it would push away rain clouds and they could see it pushing down on the rubber of the balloon stretched across the jar.
17. (no dialogue)
18. She also explained that if the air pressure was low, it was easier for rain clouds to move in.
21. The day before the big picnic, Sara checked their readings.

Music / Foley

Birdsong during external shots. Sound of bike falling over.
Soundtrack: “Tenderness” from Bensound.com.

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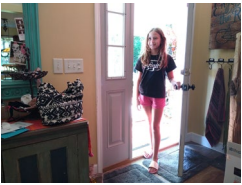
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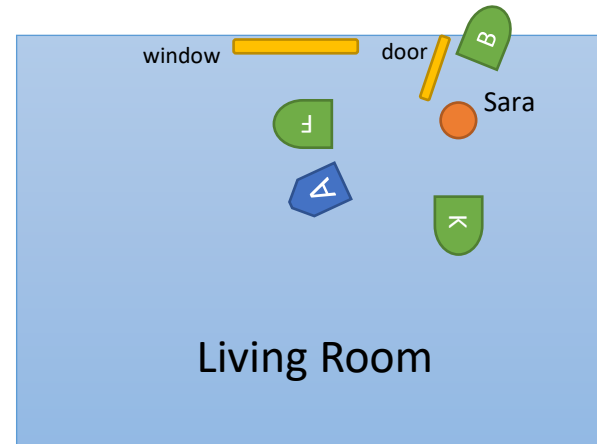
Scene: II – Living Room Door (Establishing Interior)

Shot Angles



3. Camera A

Lighting & Camera Setup



Shot List

3. Camera A
MS (ES) *Location shot inside home*

Narration / Dialogue

3. But lately she was worried that the weatherman would ruin the big day like he had done the year before.

Music / Foley

Sound of door opening and closing.
Soundtrack: "Tenderness" from Bensound.com.

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Scene: III – Kitchen, Introduce “Mother”

Shot Angles



4. Camera A

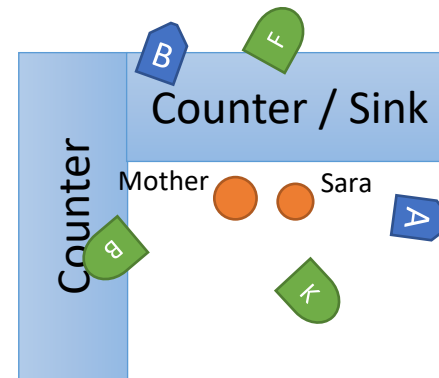


5. Camera B



6. Camera A

Lighting & Camera Setup



Shot List

4. Camera A
MS Mother at sink (over Sara's shoulder)
5. Camera B
CU Detail of Calendar
6. Camera A
MS Mother at sink (over Sara's shoulder)

Narration / Dialogue

4. Mother had tried to explain that the weatherman was only making predictions and that it really wasn't his fault.
5. "Why don't we make our own predictions this week?", Mother suggested.
6. "We can make a barometer like the ones the forecasters use to study weather changes," she said.

Music / Foley

Sink water running. Clinking of dishes.
Soundtrack: Silence, followed by "Freedom" from Bensound.com as Shot 6 concludes.

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Scene: IV – Moving into Project Workspace

Shot Angles



7. Camera A



11. Camera D



8. Camera B



12. Camera B



9. Camera A



13. Camera B

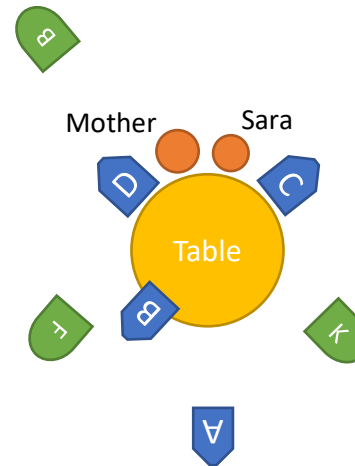


10. Camera C



14. Camera A

Lighting & Camera Setup



Shot List

7. Camera A
MS *Mother & Sara at table*
8. Camera B
CU *Items being placed on table*
9. Camera A
MS *Mother directing Sara to cut*
10. Camera C
ECU *Mother putting balloon on jar*
11. Camera D
ECU *Mother cutting straw, Sara applying glue to it*
12. Camera B
ECU *Gluing straw to top of jar*
13. Camera B
ECU *Adding pin to end of straw*
14. Camera A
MS *Letting glue dry*

Narration / Dialogue

7. You can too! Follow along with Sara and her mom as they make a simple weather barometer.
8. You will need a few supplies: a jar, a balloon, a straw and a needle. Plus, scissors for cutting and some fairly sticky glue.
9. First, mother instructed Sara to cut the balloon in half.
10. Then, mother carefully stretched the balloon over the mouth of the jar.
11. Using only the rigid part of the straw, apply some glue along one end of the straw.
12. Adhere it to the balloon so that the straw looks like it's pointing to the center of the rubber top.
13. And glue the needle so it points out of the other end of the straw.
14. Then give everything a chance to dry.

Music / Foley

Soundtrack: "Freedom" from Bensound.com (continues).

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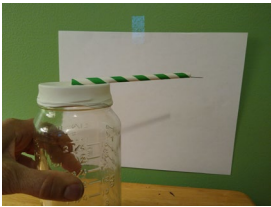
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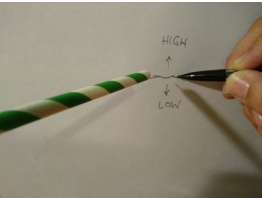
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Scene: V – Seeing the Results of the Experiment

Shot Angles



19. Camera A

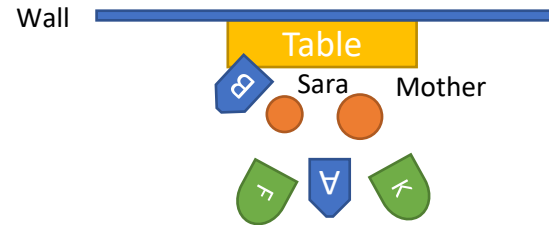


20. Camera B



22. Camera A

Lighting & Camera Setup



Shot List

19. Camera A
ECU Barometer points to Paper
20. Camera B
ECU Labeling the Paper
22. Camera A
CU Sara looking at chart

Narration / Dialogue

19. Later, they made plans to track the movement of the straw.
20. The straw would tip up if higher air pressure was pushing down on their experiment. But it would tip down as air pressure lowered.
22. She was relieved to see that atmospheric pressure was on the rise which meant fair weather ahead!

Music / Foley

Soundtrack: "Freedom" from Bensound.com (continues).