Teacher Try Daybooks First

Karen Haag

Differentiate?

How do I teach students to recognize their thinking?

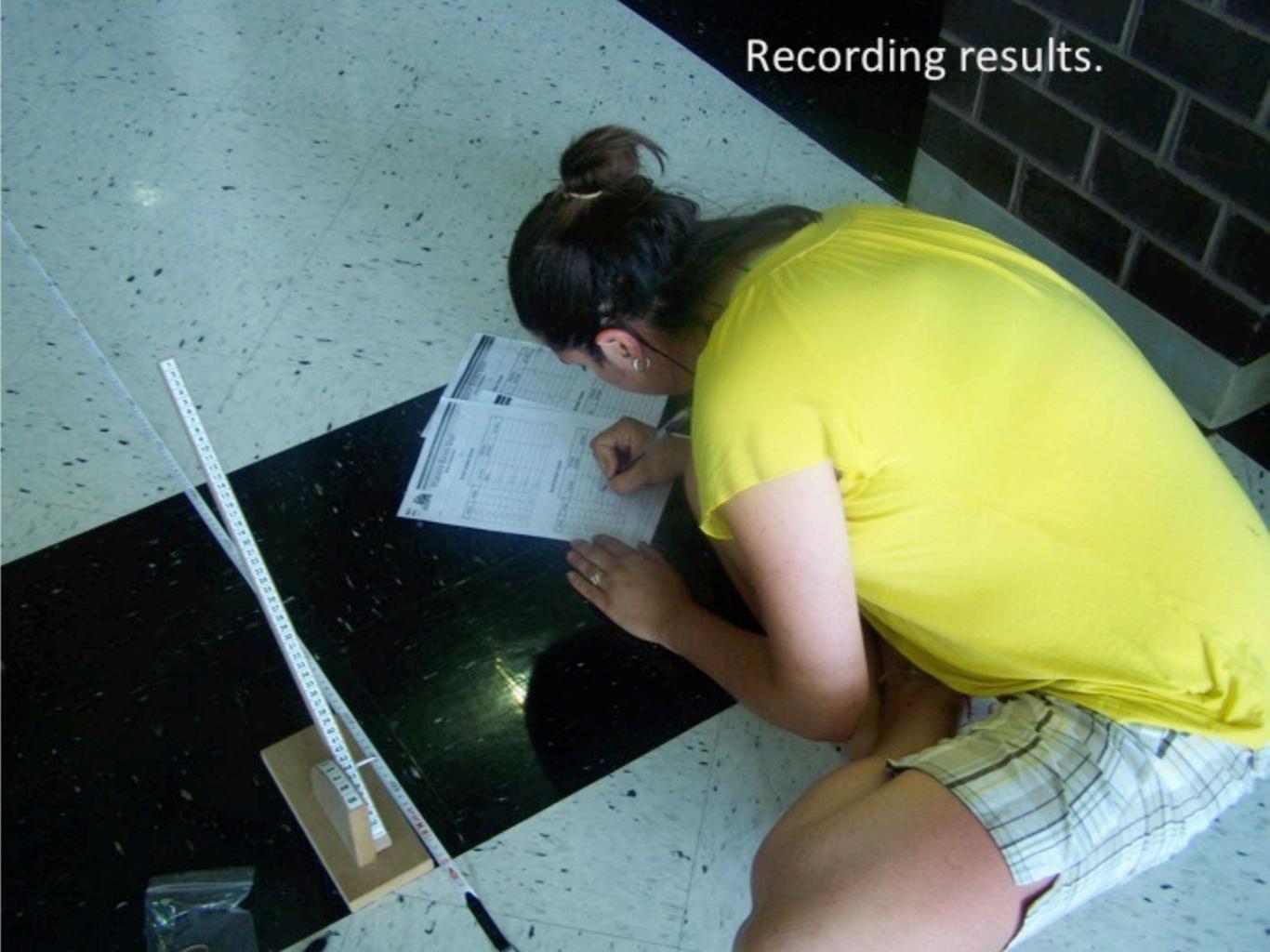
How can I show students that each lesson is connected? across disciplines?

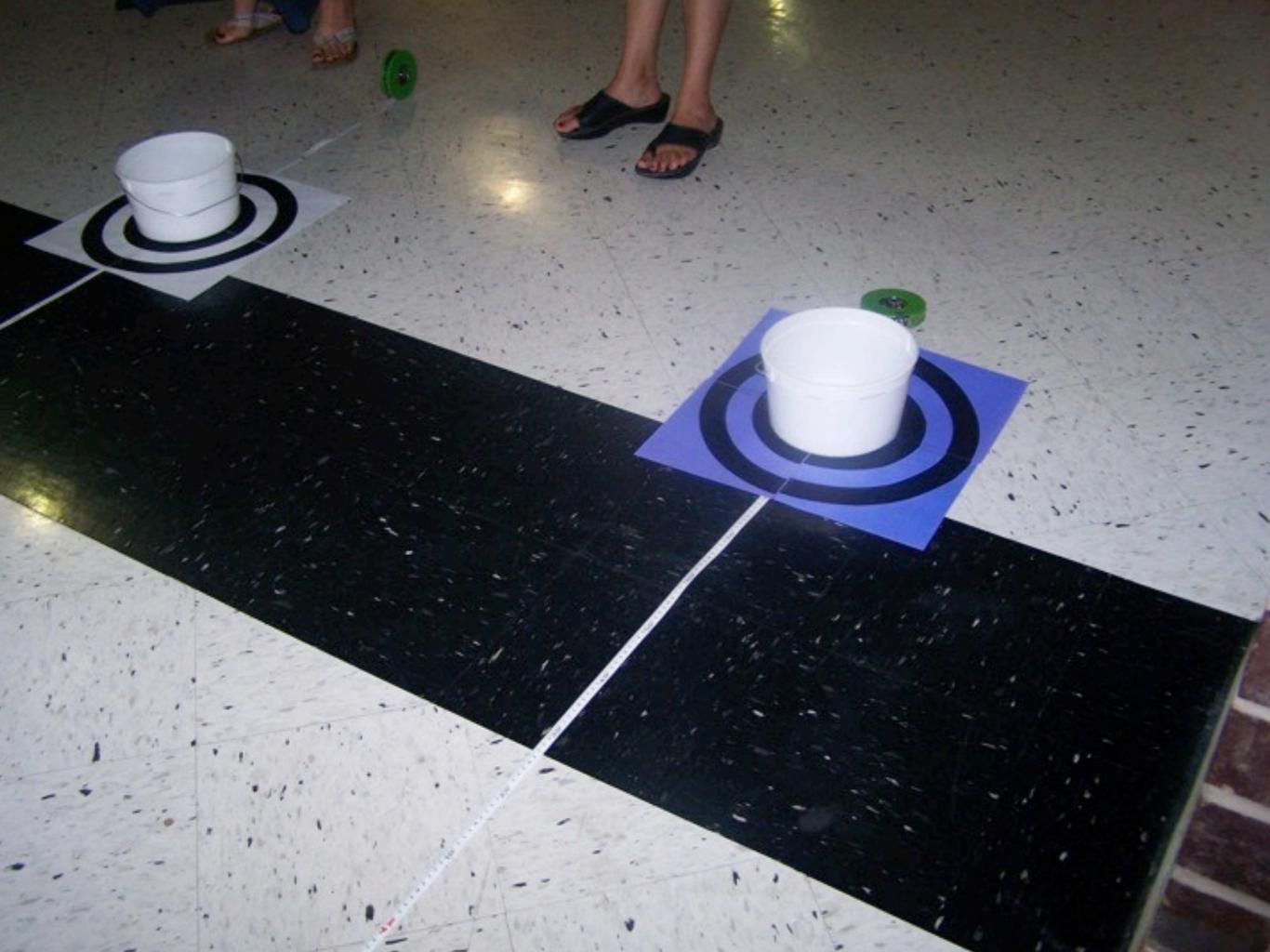




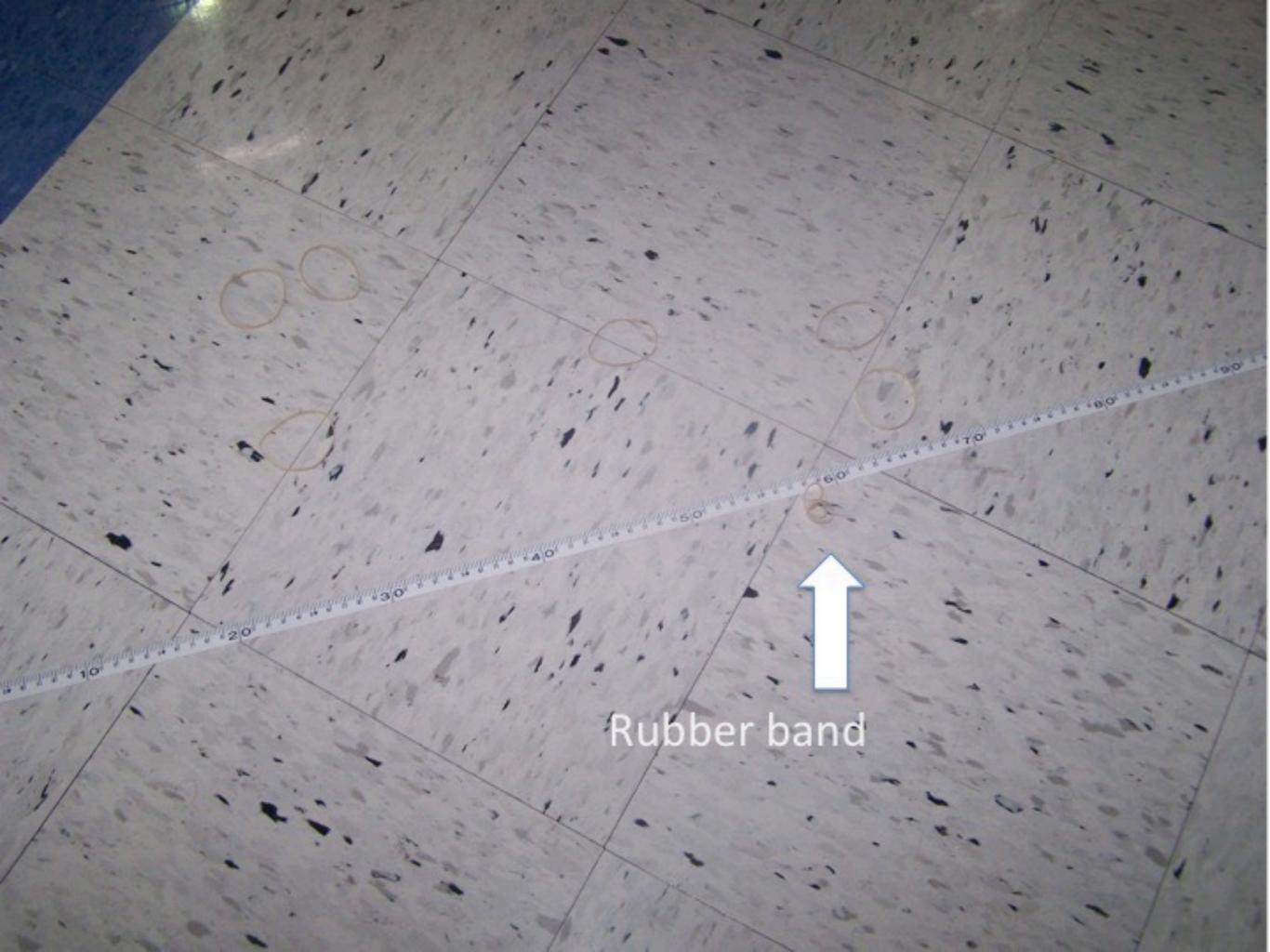
Recording sheets RUBBER BAND UNIT IBBER BAND UNIT **Data Collection** Team Date Small Rubber Bands Small Rubber Bands Distance 1st Shot 2nd Shot 3rd Shot stance in Meters **Rubber Bands** 10 30 Distance 40 50 60 70 80 90 Angle Measurement in Degrees 2nd Shot 3rd S





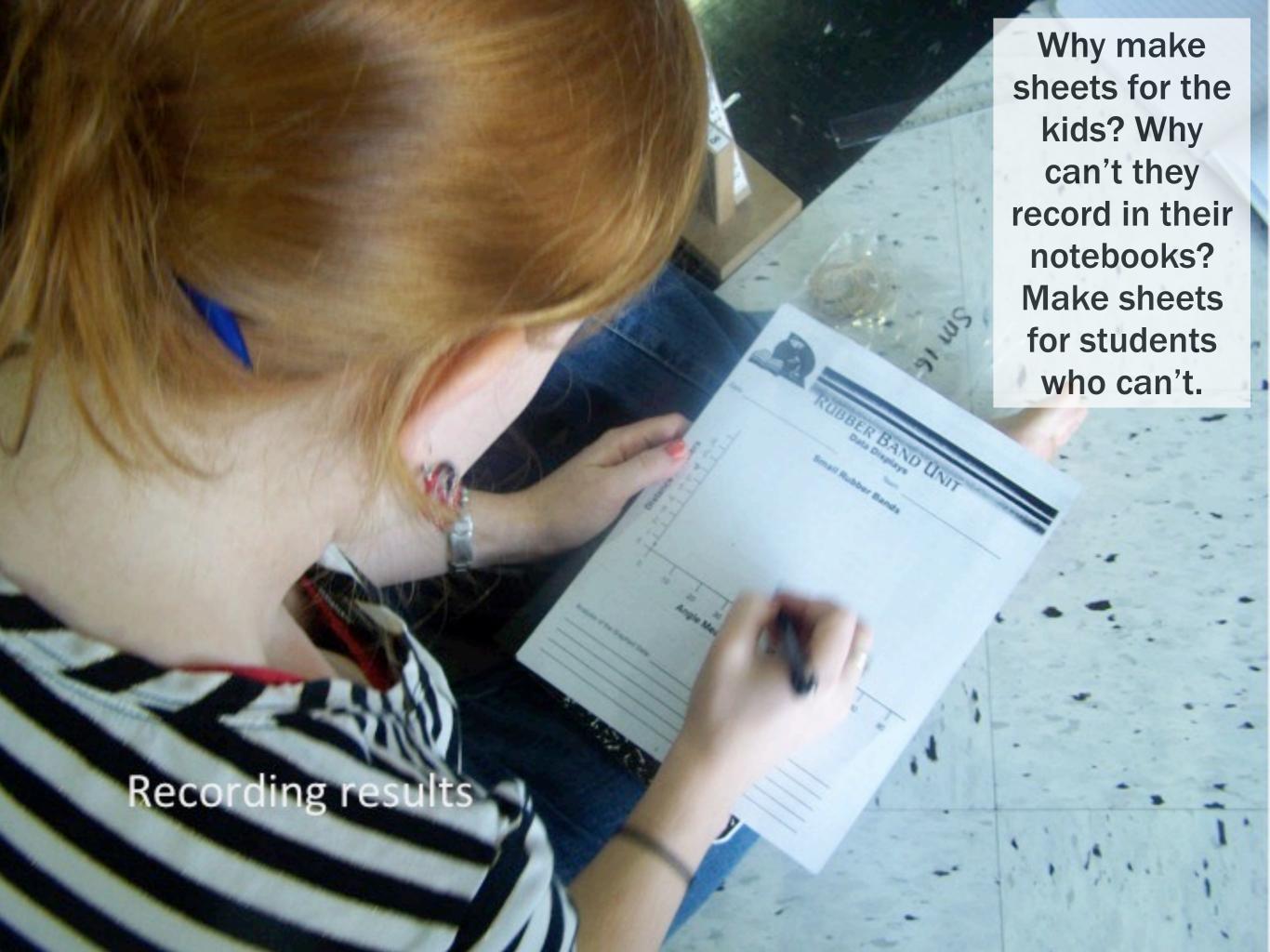


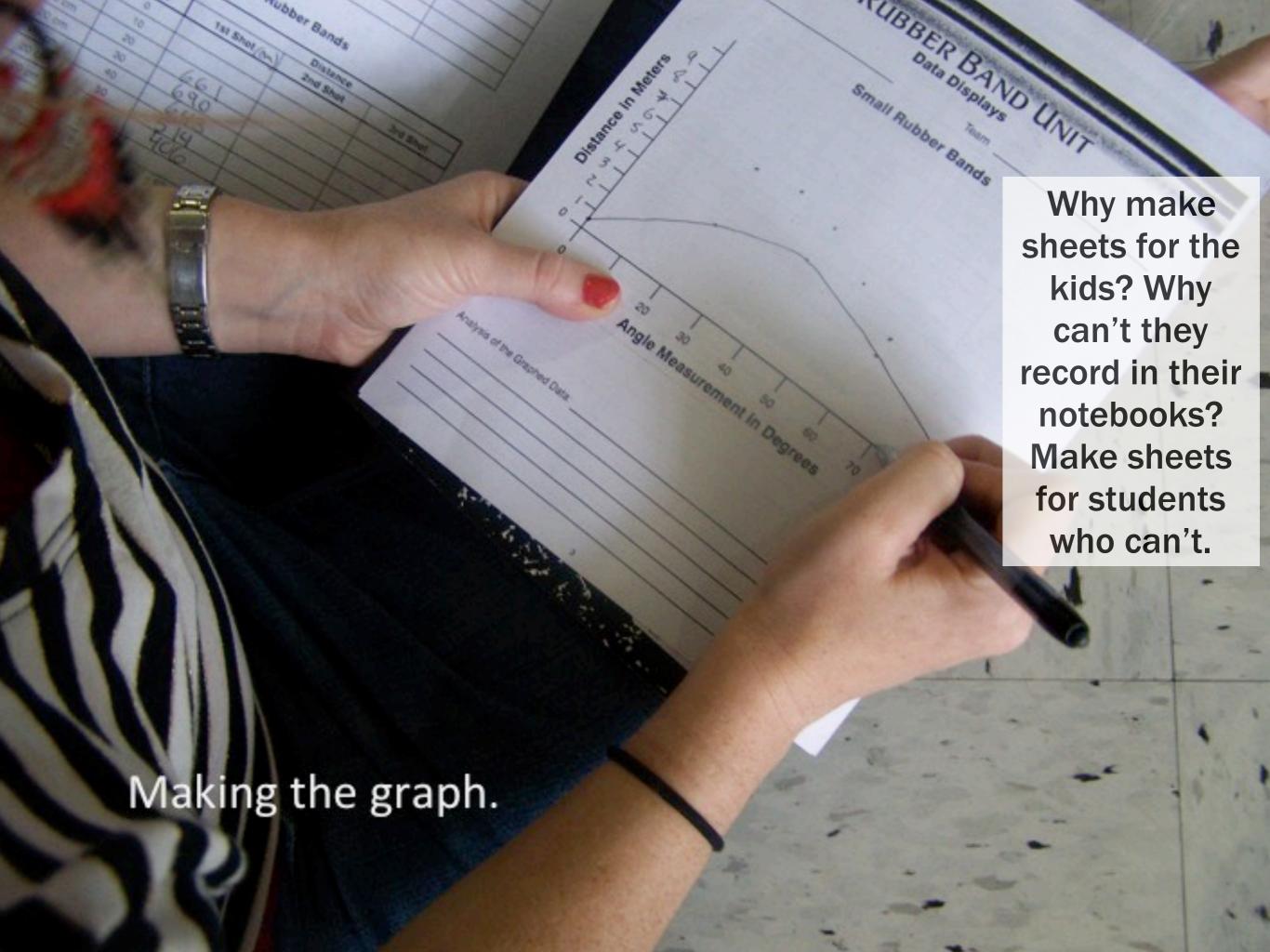


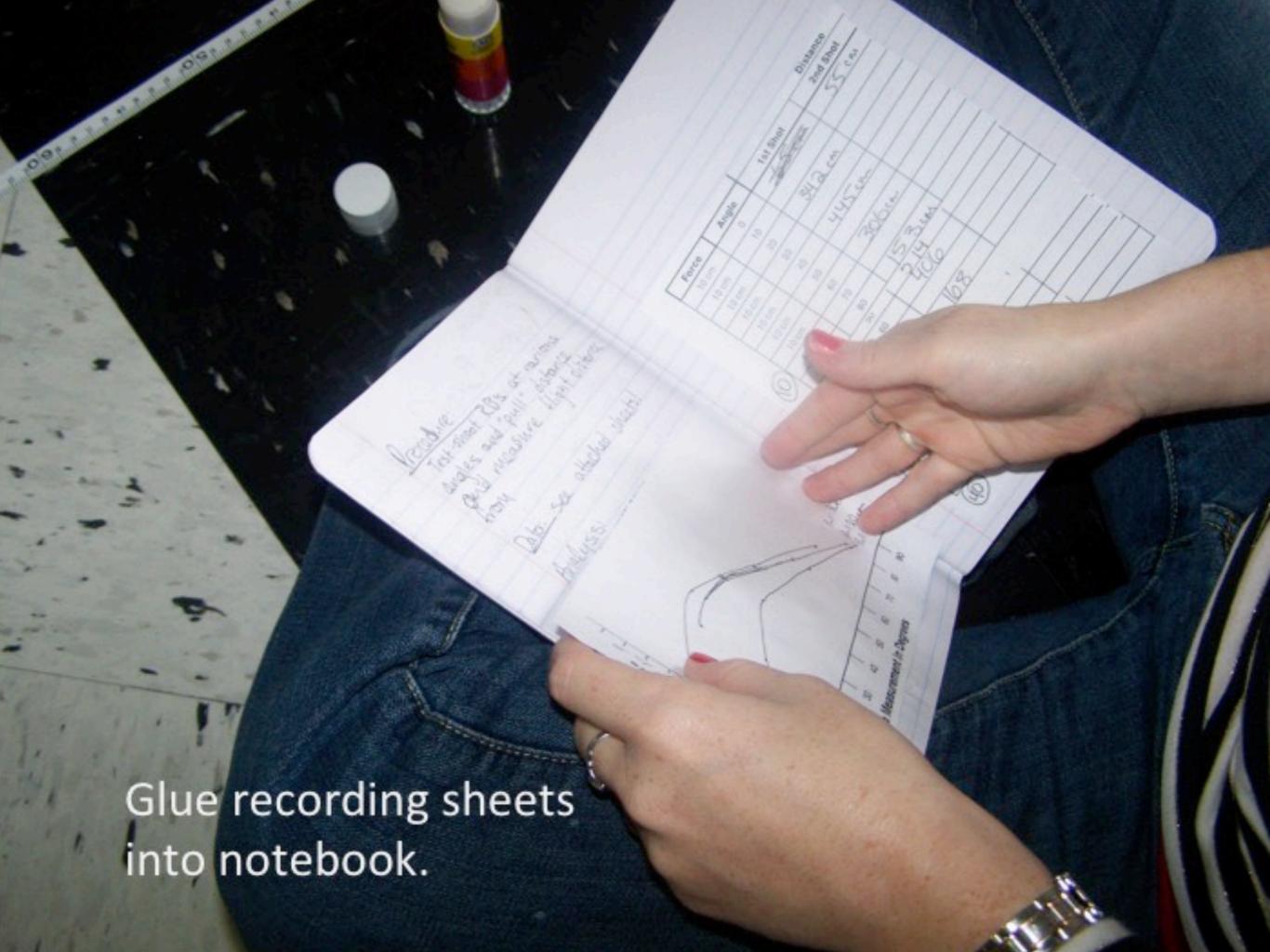
















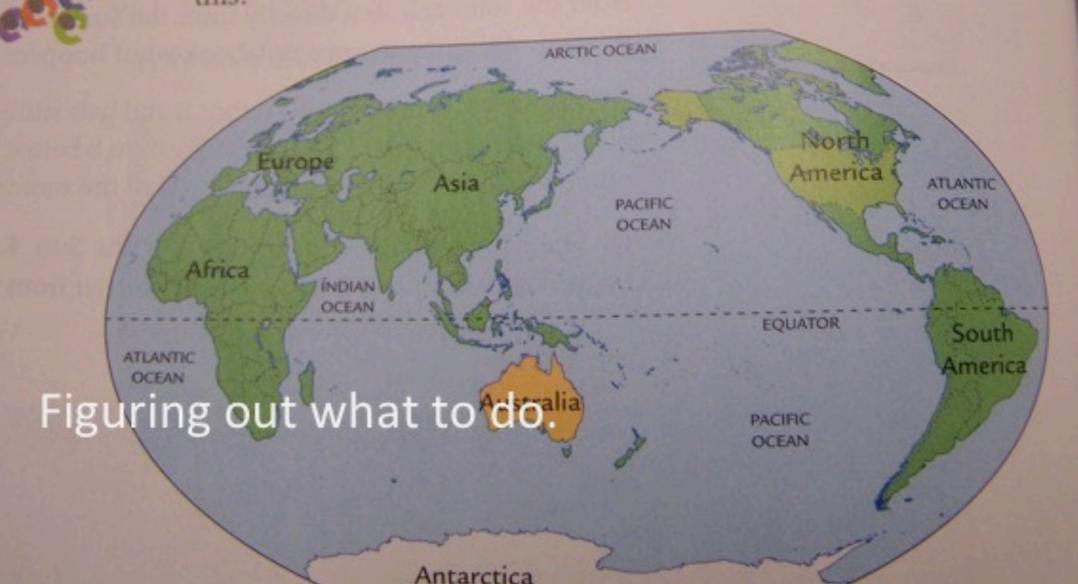
Set up a Solar Cell

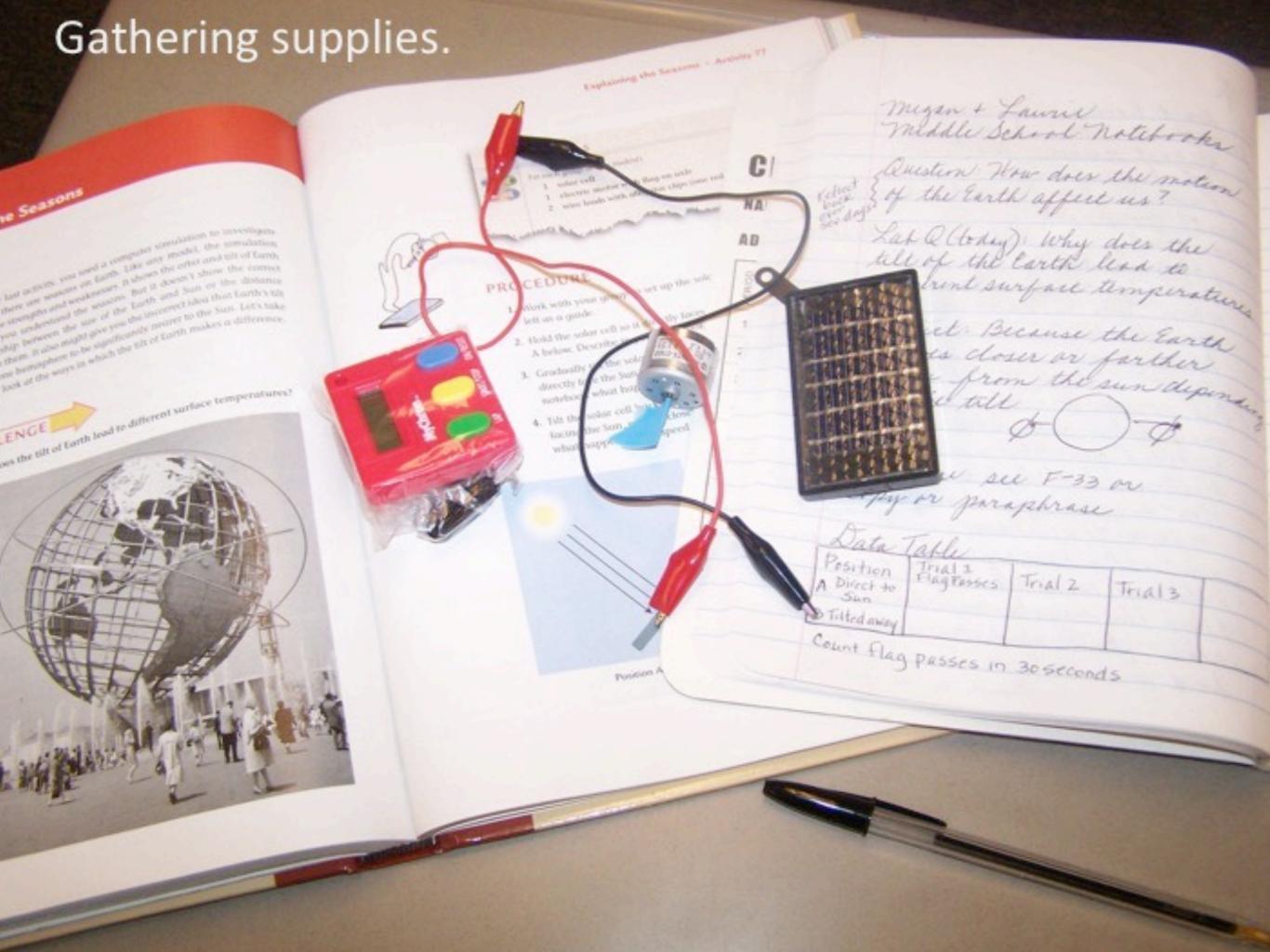
PROCEDURE

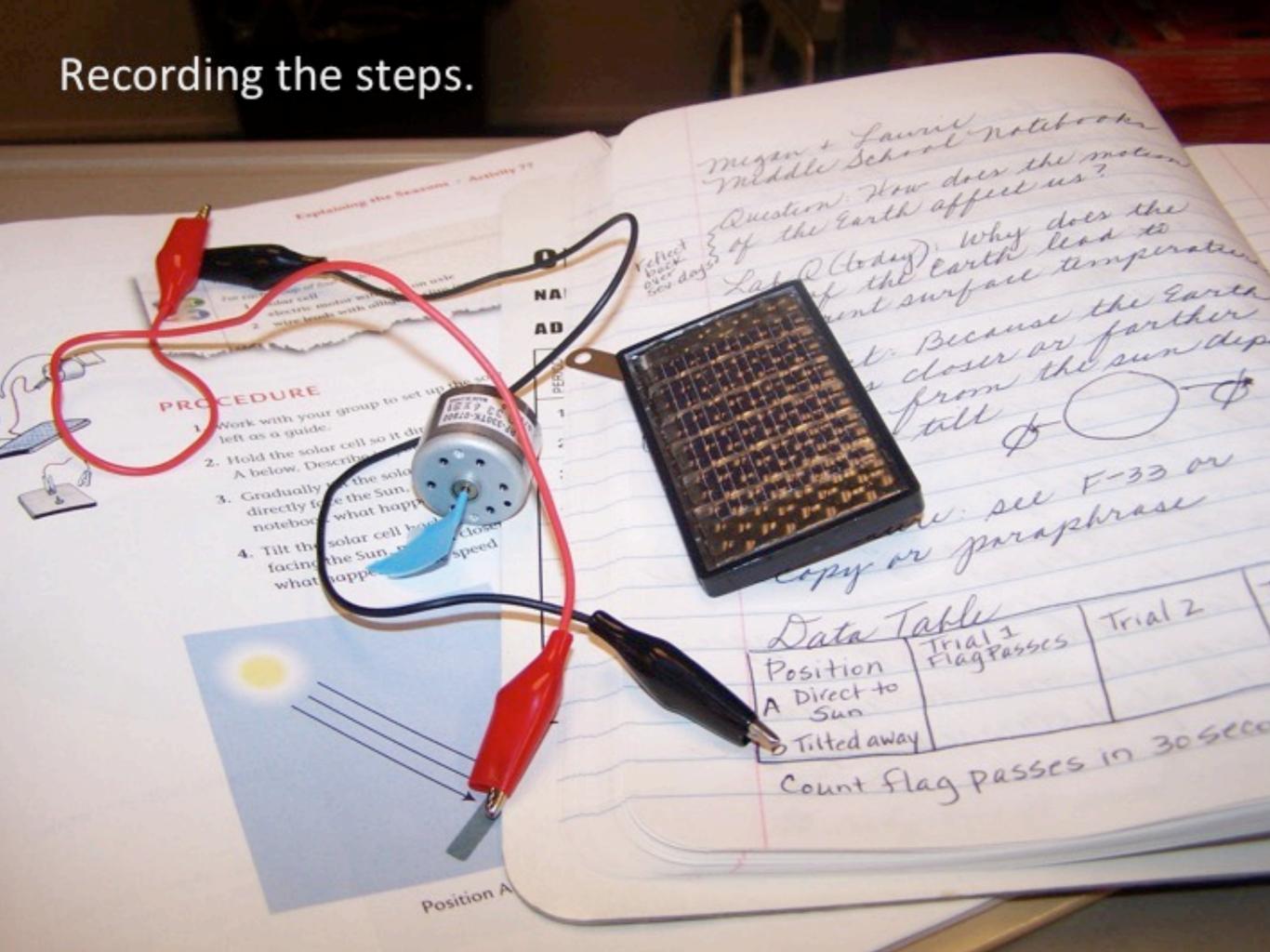
- Work with your group to set up the solar cell. Use the diagrams at left as a guide.
- 2. Hold the solar cell so it directly faces the Sun, as shown in Position A below. Describe in your notebook what happens to the motor.
- Gradually tilt the solar cell so that it still gets sunlight but does not directly face the Sun, as shown in Position B below. Describe in your notebook what happens to the speed of the motor.
- 4. Tilt the solar cell back to directly face the Sun. Keeping it directly facing the Sun, move it closer to and farther from the Sun. Describe what happens to the speed of the motor.

Figuring out what to do.

- from a flashlight, what happened to 2. When you tilted the solar cell from Position A to Position B, what
 - when you titted the sold cell the motor attached to the solar effect did it have on the speed of the motor attached to the solar cell?
- 3. What does this tell you about the amount of the Sun's energy trans. ferred to the solar cell in the two different positions? Be sure to give a complete explanation.
- 4. Why is the Northern Hemisphere warmer when it is tilted toward the Sun?
- 5. In Australia, it is summer in December and winter in July. Why is this?







migan + Lawrie notebooks Ruestion: How does the motion Lat Q (today): Why does the different surface temperature Predict: Because the Earth I moves doser or farther away from the sun dependen on the till Procedure see F-33 or copy or paraphrase Data Table FlagPasses Position Trial 2 Trial 3 A Direct to B Tilted away Count flag Dosses in 30 seconds

Learning to use notebooks as scientists do while conducting the experiment.

mugan + Lawril notebooks Sunf 1/65 general & of the Earth affect us? Question: How does the motion Hardest concept to IAI teach: Lat Q (today): Why does the telt of the Earth lead to different surface temperatures mistakes are AD. okay. Predict: Because the Earth moves closer or farther away from the sun depending on the till

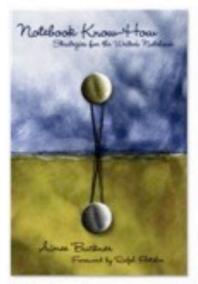
analysis Ques 2-5 2. The motor plowed down when we tilted away from the sun. 3. When the motor is gung faster, there is intre energy transperred to the motor. 4. The n. Hemisphere is warmer when it's talted toward the sun because its closer and absorbing more 5. In australia is closer to the sun in December. Bung that it is in the southern himsphire, it is tilted toward the sun in Dec - opposite oncord.

Analyze results.

Comprehending Math Algeby, healty Shabye to feat Mathematic, E-5 ARTHUR HYDE Survey by Shabye and Shabye and

Comprehending Math

Arthur Hyde





Understanding

Understanding

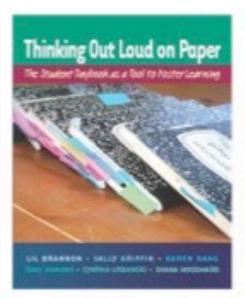
Middle School

Math

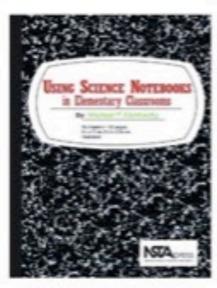
Middle Schoo

Notebook Know How and Notebook Connections Aimee Buckner

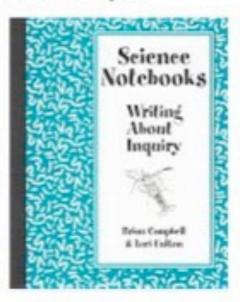
...why is everything so difficult, so different from class to class?



Thinking Out Loud on Paper



Using Science Notebooks Michael Klentschy



Science Notebooks Brian Campbell