SESSION 1 | PBS: ASKING TESTABLE QUESTIONS

Meet Mateo

Essential question: What questions would a research lab ask first?

TODAY'S TAKE-HOME **A patient story becomes science when we turn what we notice into questions we can investigate.**

Bring yesterday forward

Start here: careful observation is the first scientific tool.

Quick reading

An observation is what the record shows. A testable question asks what evidence could help us learn next. Keep those two jobs separate.

Optional reading: https://www.nidcr.nih.gov/health-info/cleft-lip-palate

Deck map

Slides 5-6: study and question the picture | Slide 7: name the rule | Slide 8: read the biology evidence | Slides 9-11: transfer and decide | Slides 12-13: exit and bridge.

The visual in words

Observe	Name what is unknown	Ask a testable question

Build the idea

Model start: Mateo has an opening in the upper lip and roof of the mouth. I wonder which normal building step did not finish.

- Record two observations without explaining them yet.

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- Write two How questions and two Why questions.

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- Revise one question so evidence could help answer it.

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Use the analogy, then return to the science

ANALOGY	BIOLOGY
Detective notebook	Facts go in one column. Questions that evidence could answer go in the other.

Apply the model to Mateo

Mateo is a composite teaching case built from published science. No real patient information is used.

What can this lesson explain? What cannot it prove?

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Exit ticket and next unlock

EXIT

Turn one observation into one testable question.

NEXT

If we could watch development, what would we see happening to the face?

Four truths check

Truth 4: Developmental processes can go wrong. Circle the part of today's notes that supports this truth.