FREE TEACHING RESOURCE / 9–12 / 40

Water Futures Design Lab

TEACHER GUIDE • lesson design & facilitation

Grade band: 9–12 | 6–8 sessions, 50–70 minutes

Media: drawing, print, collage or approved digital media

The artistic problem

Create a speculative visual proposal showing evidence-based and imagined coastal futures.

Essential question: How can visual design distinguish scientific evidence from speculation?

Place-based cultural lens: Study Louisiana coastal conditions using CPRA educational resources and water data.

Learning targets

- Investigate the question: How can visual design distinguish scientific evidence from speculation?
- Apply infographic hierarchy, layered maps, annotated scenario panels in a deliberate original composition.
- Use critique evidence to improve infographic hierarchy and name one next step.

Student-visible success criteria

- The final artwork solves this problem: Create a speculative visual proposal showing evidence-based and imagined coastal futures.
- Artwork includes evidence/source key, three visual scenarios, and revised uncertainty note.
- Process evidence shows three different options before selection.
- Visual decisions demonstrate infographic hierarchy and support the intended audience.
- Feedback results in at least one visible revision that the student can explain.

Standards & studio habits

Louisiana 9–12 cluster: VA-CE-H1, VA-CE-H2, VA-CE-H3, VA-CE-H7, VA-AP-H6

Studio Habits of Mind: Understand Art Worlds, Develop Craft, Express, Engage & Persist, Reflect. These habits are developed interactively, not in a fixed rank or sequence.

Instructional alignment: Louisiana benchmark codes are official broad grade-cluster benchmarks; specific expectations are developed locally. The ten instructional stages come from the supplied Artistic Investigations framework.

Preparation & materials

- Drawing paper or sketchbook for idea studies
- drawing, print, collage or approved digital media
- Samples and images from reliable sources, with attribution
- Tools appropriate to local safety rules and grade level
- Choice of visual, oral, or written reflection tools

10-stage teaching sequence

01 / Engage Present the artistic question: How can visual design distinguish scientific evidence from speculation? Give students two contrasting examples that do not dictate a finished product.

02 / Investigate Study Louisiana coastal conditions using CPRA educational resources and water data. Gather visual evidence and note what is observed rather than assumed.

03 / Skill Studio Demonstrate infographic hierarchy, layered maps, annotated scenario panels. Make thinking visible by testing two alternate solutions and identifying what each communicates.

04 / Generate Develop three possibilities for the challenge: Create a speculative visual proposal showing evidence-based and imagined coastal futures. Change the focal point, material, arrangement or viewer perspective between drafts.

05 / Plan Compare sketches to the success check (evidence/source key, three visual scenarios, and revised uncertainty note); choose a direction and state why it better communicates the intention.

06 / Produce Produce an original visual response using infographic hierarchy, layered maps, annotated scenario panels; conference on one technical choice and one contextual question.

07 / Critique Partners identify where the artwork communicates the intended idea and locate evidence of infographic hierarchy in the work.

08 / Revise Revisit the specific checkpoint: Evidence/source key, three visual scenarios, and revised uncertainty note. Make one visible change after critique and preserve the initial view for comparison.

09 / Present Present with a title, medium, one key artistic decision and any needed credit or contextual limitation.

10 / Reflect Reflect: What evidence proves you improved infographic hierarchy? What will you try or investigate next?

Studio sessions & evidence checkpoints

Session	Teaching move	Capture evidence
Day 1	**Locate the problem** How can visual design distinguish scientific evidence from speculation?; Study Louisiana coastal conditions using CPRA educational resources and water data.	Initial inquiry and positionality check.
Day 2	**Source and context audit** Evaluate evidence, stakeholders, permission or material constraints.	Source log with known/uncertain claims.
Day 3	**Investigate technical options** Demonstrate infographic hierarchy, layered maps, annotated scenario panels. Make thinking visible by testing two alternate solutions and identifying what each communicates.	Material trials and design comparison.
Day 4	**Generate + plan** Three robust concepts with intended audience and criteria.	Annotated concepts and rationale.
Day 5–6	**Build and document** Develop work with dated process notes and ethical checks.	Progress photos, source credits, technique notes.
Day 7	**Critique + substantive revision** Test with peers for communication and context; revise infographic hierarchy.	Feedback and before/after comparison.
Day 8	**Present + evaluate** Curate for audience and acknowledge limitations.	Rubric, portfolio record, and next investigation.

Key technique to model

infographic hierarchy, layered maps, annotated scenario panels

Access without lowering the artistic goal

Include communities with different relationships to land, waterways, and access to decisions. Offer physical samples, captioned images, accessible demonstrations, flexible planning modes, and alternate materials while retaining the common visual learning target.

Teacher coaching questions

- What is the visual problem you are solving?
- Which decision communicates your intended meaning most clearly?
- What does your reference prove, and what are you still imagining?
- What could a viewer misunderstand?
- What visible revision will strengthen your next version?

Cultural care

Label scenarios and uncertainties; classroom proposals are not scientific forecasts.

Stretch & explore

Add an audience-specific version of the proposal.

Design provenance: Original Studio Fieldnotes investigation developed for the 50-lesson library; informed by the teacher-supplied ten-stage Artistic Investigations architecture and reflective Studio Habits framework.