

LIFE CYCLE TRACKING

SCIENCE

NGSS 3-LS1.B:

THEATRE

TH:Cr1.1.3 a:

TEACHER(S):**DURATION: (1) 30-45 minute class****21st CENTURY SKILLS:**

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|---|---|---|-------------------------------------|
| <input checked="" type="checkbox"/> Critical Thinking | <input checked="" type="checkbox"/> Creative Thinking | <input type="checkbox"/> Collaborating | <input type="checkbox"/> Initiative |
| <input checked="" type="checkbox"/> Communicating | <input type="checkbox"/> Media Literacy | <input type="checkbox"/> Informational Literacy | |
| <input type="checkbox"/> Tech Literacy | <input type="checkbox"/> Flexibility | <input type="checkbox"/> Social Skills | <input type="checkbox"/> Leadership |
| <input type="checkbox"/> Productivity | | | |

ESSENTIAL QUESTION

Review the life cycle of a butterfly. Ask students to create a frozen motion that shows each stage of the butterfly's development.

ENGAGEMENT

Have students select the best motion for each stage and, as a class, perform a mini lifecycle drama of a butterfly with one motion for each stage.

LESSON SEQUENCE

Step 1: Provide students with the article, Metamorphosis: Nature's Ultimate Transformer, and have them silently read the selection.

Step 2: Ask students to provide some examples of animals that transform and what each stage looks like.

Step 3: Using the frog as an example, identify the 5 stages of metamorphosis (egg, embryo, tadpole, froglet, frog). Examine the features of each stage of transformation.
4. As a group, chart how those changes might impacts the frog's life, and what new or different sensations come with each change.

Step 4: Have students create a short story about one frog's journey from egg to frog, using the stages identified earlier and the chart for inspiration.

Closing: Assign each student a developmental role of the frog and ask them to think about what the frog is thinking and feeling at that point in their story. How might they show this (drama process: tracking) with their bodies, expressions, and voice in the story? Have each student practice with others assigned the same role.

TEACHER NOTES

MATERIALS LIST:

- Metamorphosis: Nature's Ultimate Transformer article for students to read
- Butterfly and frog life cycle posters
- Space for the performances

ASSESSMENT:

Perform the Frog Life Cycle story with each student having a chance to express how he/she feels as the frog at different stages of development.

Students should be encouraged to use their bodies, expressions and voices while demonstrating the unique elements of transformation.

EXTENSION:

Provide students with a chance to create a "super" frog that could better survive in each stage of development.