**Grade:** 4th

**Subject:** English Language Arts (ELA)

**Lesson Title:** Stellar Explosions: When Stars and Planets Go Boom!

**Learning Objectives:**

* Students will be able to define the terms "star," "planet," and "supernova."
* Students will be able to identify the different types of stellar explosions (supernovae, novae).
* Students will be able to explain the causes and effects of stellar explosions.
* Students will be able to write a creative story about a fictional event related to a stellar explosion.

**Essential Questions:**

* What are stars and planets made of?
* What happens to stars and planets when they die?
* How can explosions in space affect other celestial bodies?
* Can these explosions be dangerous to Earth?

**Content Standards:**

* **Science:** Students will gain knowledge about the life cycle of stars and the different types of stellar explosions. (Standard specific to your state or curriculum should be inserted here)
* **ELA:** Students will practice reading comprehension, vocabulary development, and creative writing skills. (Standard specific to your state or curriculum should be inserted here)

**Learner Relevance:**

* This lesson will spark students' curiosity about the universe and the different celestial bodies that exist.
* Exploring the concept of stellar explosions allows students to understand the vastness and dynamic nature of space.
* Writing a creative story allows them to express their understanding and imagination in a fun and engaging way.

**Differentiation:**

* Provide students with diverse learning materials, including text with varying reading levels, diagrams, and videos.
* Offer additional support or challenge activities based on individual student needs and abilities.
* Encourage students to use graphic organizers or visual aids to organize their thoughts and information.

**Formative Assessment:**

* Observe student participation in class discussions and activities.
* Collect student work, including their written definitions, explanations, and creative stories, to assess their understanding of the concepts.
* Conduct informal quizzes or exit slips to gauge student learning and identify areas where further explanation or clarification might be needed.