Lesson plan outline for connecting literature math and science using engineering and thinking skills … BE CREATIVE

This is a possible outline for the lesson plan. If you want you can combine categories or eliminate ones. You can use your own design lesson plan if you want.

Outline	Description
Introduction	Story selected, reasons, expected outcomes
Story description	Short description of story and intended age group, Author
Learning Goals	Short review of Content areas, Collaboration, thinking skills, Process … Use to create Rubrics
Prior Knowledge,	Learning the students need to be able to do this story for example; understanding of brainstorming, design process, use of cutting tools, Special skills, etc.
Outcomes *when participating in this activity, students will*	Participate in the project (Teams, Reports), Becoming a better story teller, Be able to have a dialogue with a character in the story
Teachers Strategy	How are you going to approach this task. Any special things you want to emphasize?
Vocabulary	Any key words that will be emphasized
Design Challenges	List possible challenges found in the story. These are problems that the characters in the story are having, opportunities to make things better, ETC.
Requirements	What requirements are you going to set for this book to steer the learning *(Location, Working for which character, Situation, etc.)*
Selected Design challenge to do or other activity based on grade level	You might involve the students in selecting the challenge to do depending on age group. **As an example**, *Younger students might listen to the story and then do a brainstorming activity*
Extensions	What additional content items can be included to enhance the learning process (ie keeping a journal, creating a map, doing a drawing, creating another story)
Framework Standards	What standards are you going to connect the story to? Are you connecting the project to a school standard?
Thinking Skills	Any thinking skills that you want to emphasize. Questioning Skills, Higher order thinking (Analyzing, Synthesizing, etc.), Meta-cognition, creative and critical thinking.
Safety	Any concerns with equipment or tools that will be used
Materials	List of materials that will be needed for the building portion of the project
Rubrics	Using you goals as a guideline, build a rubrics for your project. How can the students be involved? How do you handle with the younger grade levels?
Contact information/ date	