

Ideating

Intent to Invent – Worksheet

Directions

You must complete this preliminary plan for your invention. This is not meant to be a final design or product, only the first step in planning what you want to do and when. You, the inventor, can always make changes to your plans later as the need arises. You may need your parents/guardian to assist you in the creation of your invention. After you and your parents or guardians review this worksheet, please have them sign below and return. **(Parents or guardians, please only assist as an advisor or coach – the ideas and work must come from the student.)**

The problem I will solve: _____

My proposed solution:

The constraints I need to consider:

People who might be able to help me

Name: _____

How I can get in touch with them: _____

Help they could provide: _____

Name: _____

How I can get in touch with them: _____

Help they could provide: _____

Name: _____

How I can get in touch with them: _____

Help they could provide: _____

Materials

Materials I Will Need	How I Can Get The Materials (Recycled, Donated, Location)

Invention Process Timeline

Order	Date to be completed	Description of task or step	Support/help you will need to complete the task or step
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Problems I Might Have

1. _____
2. _____
3. _____

Please sign the worksheet and return to your teacher

Signature of Student

Signature of Parent/Guardian

Invention Model

(Models are used to represent scientific thinking. Use the space below to make a model of your invention and how it might work. Label parts and materials and point out important aspects of your invention.)

Asking for Feedback

Inventing is never done in a bubble! Inventors must collaborate with others by sharing their invention ideas and listening to others' feedback. You will have the opportunity to talk about your invention with your classmates. You should also discuss your invention ideas with 3 adults. They might provide you with a different perspective than your own. After hearing the feedback, evaluate what suggestions you believe can use to improve your invention.

Adult 1: _____

Strengths	Suggestions
Aspects of the invention the adult liked:	Things the adult suggested I could think about to make improvements:
Reflections on the feedback I received:	

Adult 2: _____

Strengths	Suggestions
Aspects of the invention the adult liked:	Things the adult suggested I could think about to make improvements:
Reflections on the feedback I received:	

Adult 3: _____

Strengths	Suggestions
Aspects of the invention the adult liked:	Things the adult suggested I could think about to make improvements:
Reflections on the feedback I received:	