



INDEPENDENT STUDENT LEARNING AT HOME

LESSON 6: Intent to Invent

TODAY I WILL LEARN...

When it comes to invention, there is a lot to think about- research, design, materials needed, how to build a prototype and then how to test it to see if it works. Every project needs a plan and an invention project is no different. Inventors develop plans to keep them on track to develop their ideas and to achieve their goals. Good inventors will even think about obstacles they might face along the way, so they can plan for how they might need to adjust if things are not going right the first time.

Today you will outline a plan for your invention and use it to keep you on track to create your prototype. You will collect and record your ideas and then draw your initial model of your invention, thinking about materials and parts as well as challenges you might face. You will then share your plan with someone else and listen to their feedback. Then, you will decide if you want to make any changes to your plan before you begin to create your invention prototype.

MATERIALS

Resources Provided by YIP:

- Video: Intent to Invent- Guided Instructions
- PDF: Intent to Invent (you will need 2 copies, one for the example activity and one to complete for your own invention; *copy also found in YIP Inventor's Journal*)

Materials from Home:

- Pens/pencils
- Notebook or other paper for writing and drawing
- YIP Inventor's Journal (or other logbook)

INVENTOR PLAN

Note: You will need to use your YIP Inventor Journal or an alternative invention log. Logbooks of some kind are required for submission to the Northern New England Invention Convention and the Invention Convention US Nationals.

Instruction: Intent to Invent

1. Watch Video: Intent to Invent- Guided Instructions. Refer to Slide Deck if needed for review.

Activity: Intent to Invent Example

1. Follow the slides in the slide deck to practice an Intent to Invent Worksheet using the pencil as an example of the invention idea.

Activity: Partner Sharing

1. Find someone at home and share your invention idea and your plans with them.
2. Ask for feedback. If possible, ask them to watch the Intent to Invent Guided Instructions video with you so that they understand your task and also how to give constructive feedback that will help you analyze your plans.
3. Next, complete your own Intent to Invent Worksheet for your original invention idea. You can find a copy of this worksheet in the YIP Inventor's Journal and write your ideas directly onto this page, or use the worksheet as a draft and re-copy into your journal later.

Note: The Intent to Invent worksheet is an important component of the inventor journal required for both the Northern New England Regional Invention Convention and Invention Convention US National competitions.

CHECK AND REFLECT

1. Draw a sketch of your invention idea and to label one feature of the design that came from a suggestion or consideration offered in feedback from another person (someone at home, teacher, peer, or friend).