

Lesson 5: Researching and Redesigning



Let's watch the Invention Process in action.

Invention Process = Design Process

WHAT NEW QUESTIONS DO WE HAVE?

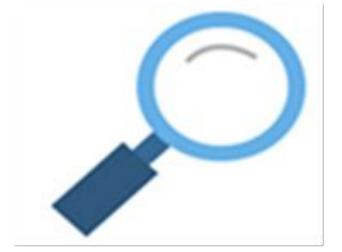
- Who is the invention for?
- How are they affected by the problem?
- How does the solution help?
- Does this solution idea already exist?

HOW CAN WE LEARN MORE?

- What resources can we use?
- Who might be able to help us?

RESEARCH

Gathering facts and information to help us better understand.

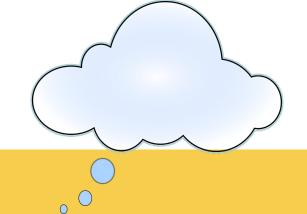


HOW DO WE RESEARCH?

Look it up!

- Use keyword searches
- Use internet sites
 - US Patent and Trade Office (USPTO)
 - Amazon
 - Target

LET'S TRY IT



KEY WORDS: "Improved Umbrellas"







LET'S TRY IT



What are my keywords? "Umbrellas for Animals"

Add more keywords for more detailed information.

LET'S TRY IT AGAIN



Be more specific: • •

"Umbrellas for Squirrels"

Add more keywords for more detailed information.

RESEARCH SITES

US Patent and Trade Office: www.uspto.org

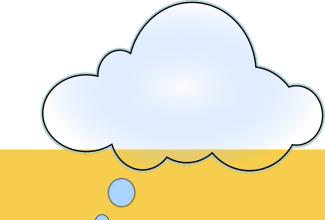
Amazon: www.amazon.com

Target: www.target.com

FEEDBACK

Feedback= Giving someone information about their behavior, actions or performance.

CONSTRUCTIVE FEEDBACK



- PLUSES= good things, things you like about the idea
- POTENTIALS= new ideas to improve
- CONCERNS= questions or challenges you see in the idea.

GALLERY WALK



- Why did you choose these ideas?
- What do you like best about them?
- Do you think one idea is better than the other?

PARTNER SHARE

Share your ideas with a partner. Be sure each partner has time to speak.



HELPFUL QUESTIONS TO ASK?



- Do you think my idea solves the problem?
- Is it something I can build?
- Is it useful?
- What ideas do you have to make it better?

TIME TO REFINE THE DESIGN

Draw a design for your solution including the new improvements you wish to add. This will be your prototype!

