

Raising Researchers



A Parent's Introduction to

**Independent Investigation Method (IIM)
*and***

Texas Performance Standards Project (TPSP)



Leon Sablatura Middle School
Pearland Junior High West

November 12, 2024

What is the TPSP?



- The goal of the Texas Performance Standards Project (TPSP) is for students to create professional quality work in alignment with the ***Texas State Plan for the Education of Gifted/Talented Students***.
- *The TPSP enables students to become real thinkers and scholars. Students are challenged to think critically, abstractly, and logically. Students synthesize new information and comprehend different points of view. They also learn to communicate effectively and clearly in written and oral forms.*



STATE GOAL FOR SERVICES FOR GIFTED/TALENTED STUDENTS

Students who participate in services designed for gifted/talented students will demonstrate skills in **self-directed learning, thinking, research,** and **communication** as evidenced by the **development of innovative products** and performances that reflect individuality and **creativity** and are **advanced** in relation to students of similar age, experience, or environment. High school graduates who have participated in services for gifted/talented students will have produced products and performances of professional quality as part of their program services.

All students can do research!

Using IIM, students will learn that:

- Research is a **sequential process**
- Research is used to **answer questions**
- There are many **sources** of information
- Sources must be cited using a standard format for their **bibliography**
- They need to put information in their **own words**
- Information must be **organized** for use in a product
- They should **share** what they have learned with an appropriate audience

7 STEPS TO SUCCESSFUL

RESEARCH

1 TOPIC

Choose What to Study

- What do you already know?
- What do you want to find out?

2 GOAL SETTING

Make a Plan

- Set goals for your project
- Check on teacher requirements

3 RESEARCH

Discover the Facts

- Use many resources
- Cite your sources and record your notes

4 GOAL EVALUATION

Check Your Goals

- Look back at Step 2
- How did you do?

5 ORGANIZING

Build a Framework from Your Notes

- Put your notes into categories
- Analyze and interpret your findings

6 PRODUCT

Create Something New

- Time to write your paper
- Make a product to share what you learned

7 PRESENTATION

Showtime!

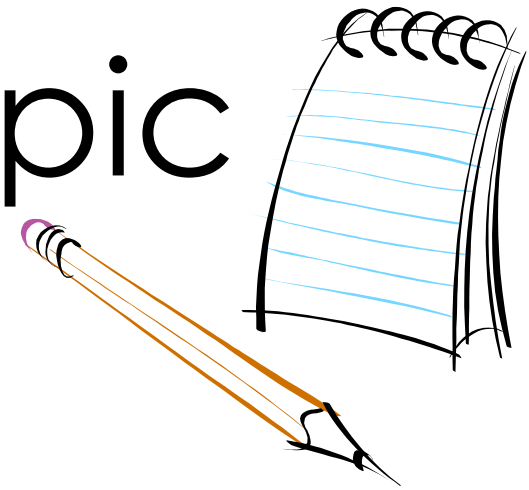
- Who's the audience?
- Present what you know

IBM Independent Investigation Method

IBM

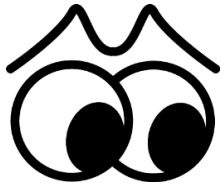


Step 1: Topic



- Researchers record information they already know (**facts**) and things they want to learn (**questions**) about a topic they have chosen or have been assigned.



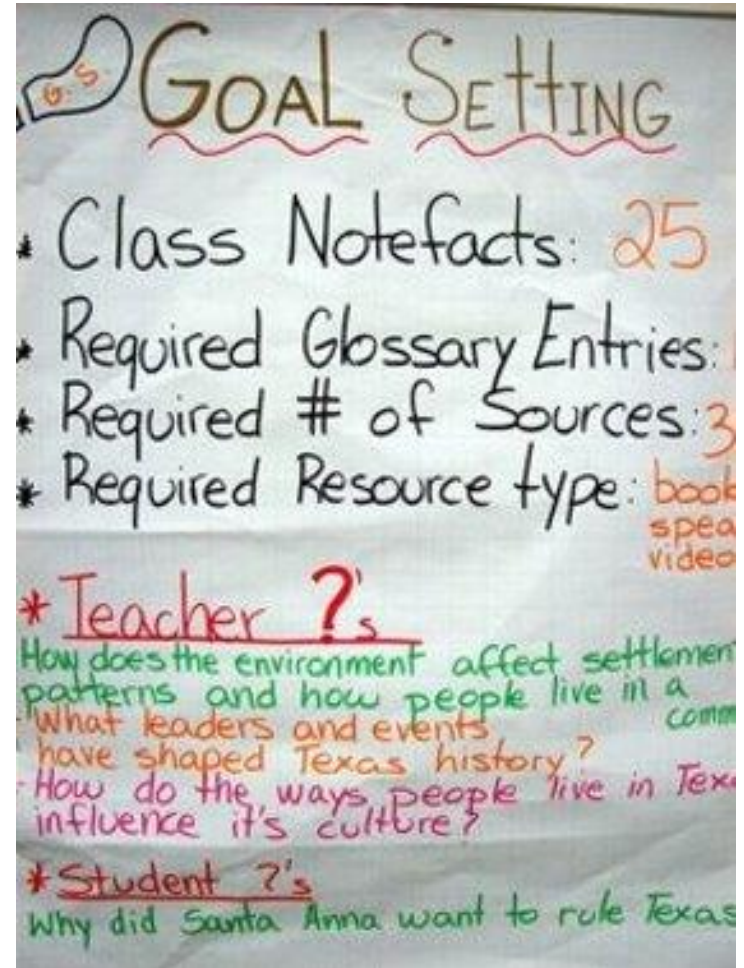


Step 2: Goal Setting

Researchers set goals by **developing questions** to guide their study.

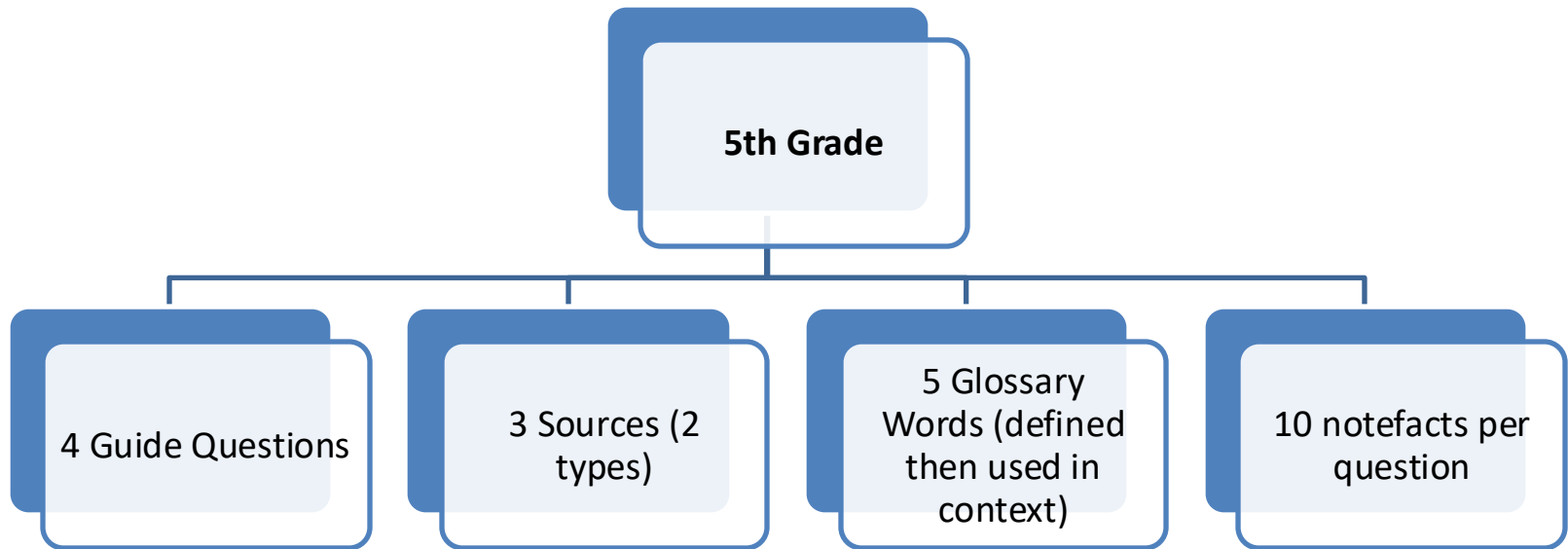
Other goals might include:

- time management plan,
- key **vocabulary**,
- types of **sources**, and
- amount of information.



TPSP Goals

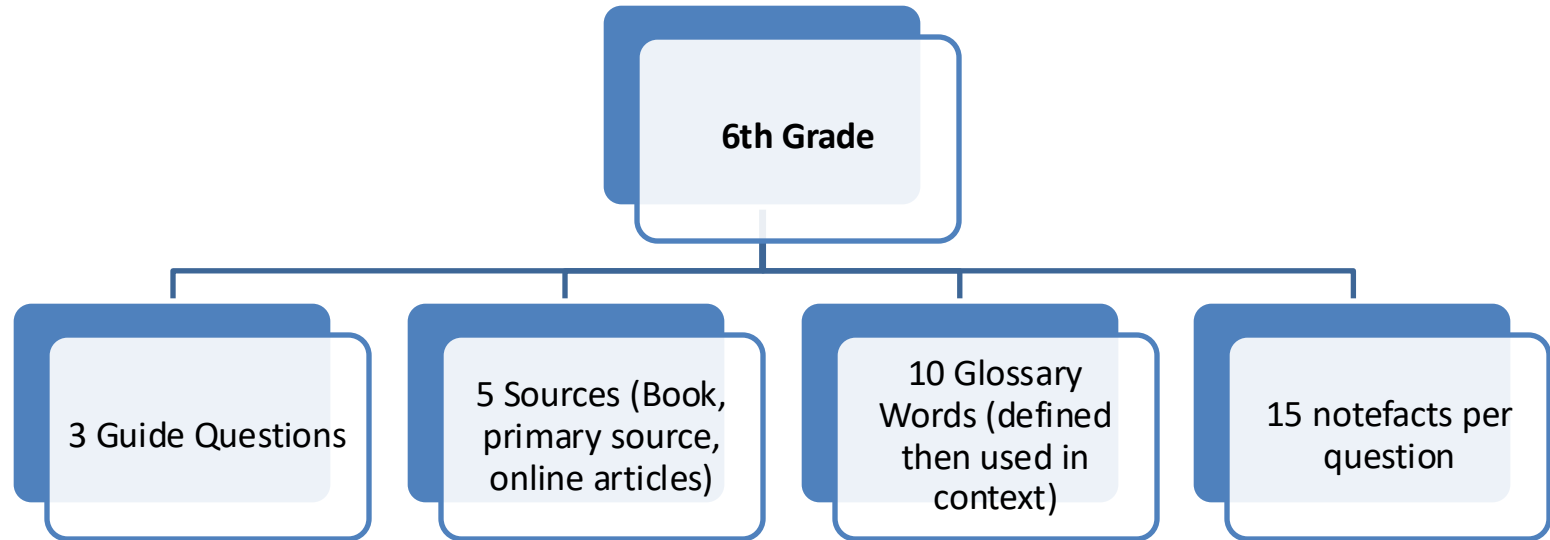
For students to be prepared to write a strong research paper and present their product at the GTA Showcase in May, the following goals are minimum expectations.



**Most research papers will be 2-3 pages.*

TPSP Goals

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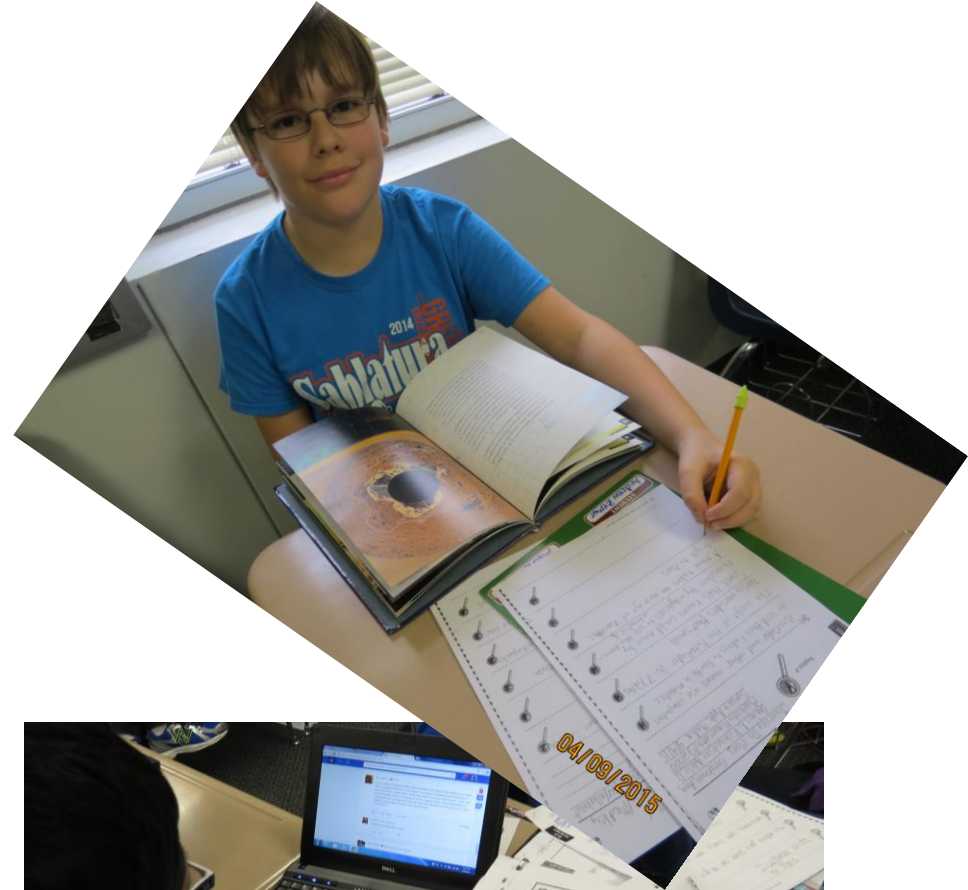


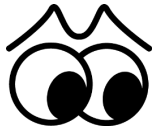
**Final research papers should be 3-4 pages.*



Step 3: Research

Researchers use a variety of resources and strategies to gather and record information, focusing on goals set in Step 2.

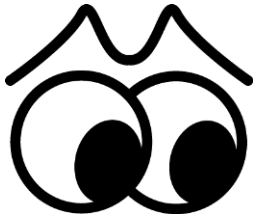




Steps to Taking Notefacts

- Each resource you use will have its own number. Put that number in the large magnifying glass and on all the small magnifying glasses next to each notefact.
- Record the required information for your bibliography on the solid lines
- Notefacts are short (note) and true (fact).
- Notefacts should be:
 - Written in your own words
 - Short but complete enough to make sense
 - Related to your goal-setting questions
 - Written between the dotted lines – one notefact per space
 - Documented by page number





Cite your sources!



Book: Author's Last Name, First Name. Title of Book. City of Publication: Publisher's Name, Copyright Date.



Website: Author Last Name, First Name. "Article or Specific Web Page Title." Title of Entire Web Site . Day Abbreviated Month. Year Web Page Was Last Revised. Sponsoring Organization. Day Abbreviated Month. Year Your Read It (URL)



Article from Online Encyclopedia: Author's Last Name, First Name. "Title of Article." Name of the Encyclopedia. Date published. Name of the Database used. <URL of database's homepage>. Date you looked at article.



Video: Uploader. (Year, Month day). *Title of the video* (Video file). Retrieved from URL.

Notefacts

Source # **3** Top 7 Tropical Rainforest
Adaptations - Bio Explorer
 Oct 17, 2019 www.bioexplorer.net/tropical-rainforest-adaptations.html

- green eyed tree frog - tectyol skin flaps look like trees/leaves
- poison dart frog - colorful to warn predators it is poisonous
- jaguars are smaller to move around in rainforest
- Some animals adapt to their size and feature
- toucans eat fruits other birds can't access
- cover only small part of Earth but over 1/2 animals

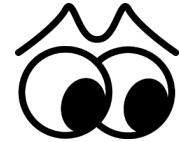
Notefacts

Source # 3

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(Common student errors)



What is a Kachina? It is a spirit, a supernatural being. (Plagiarized)

The Hopi reservation is in the middle of the Navajo reservation (Too many words)

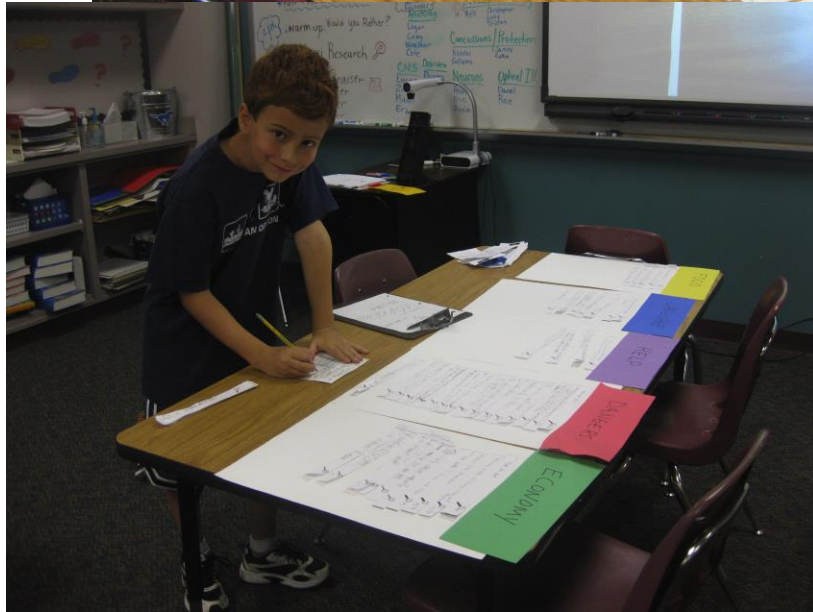
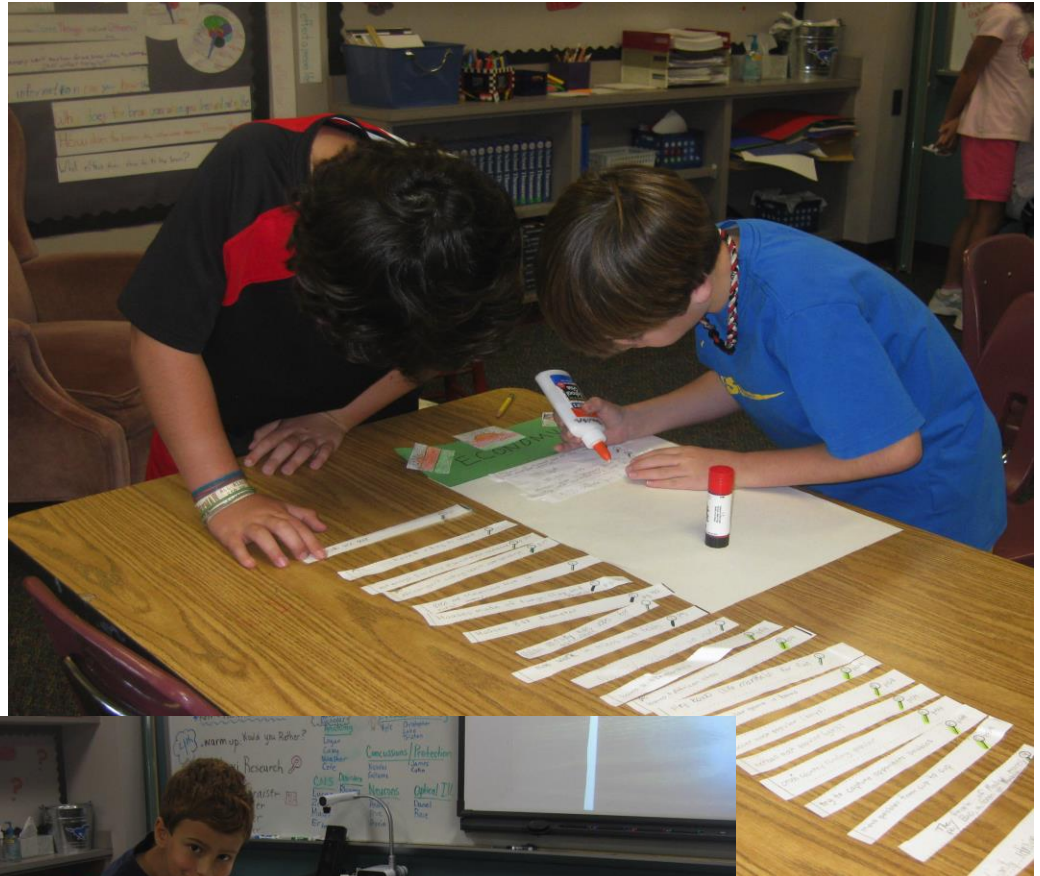
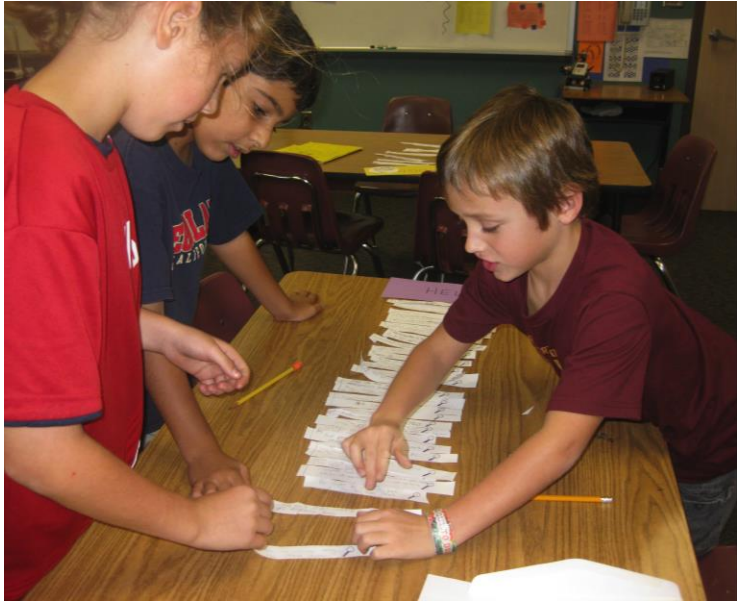
grew corn, squash, beans, melons, made baskets, silver jewelery, pottery, lived in pueblos on mesas, had religious ceremonies in kivas (Too much in 1 notefact)

religious ceremonies (Incomplete information)

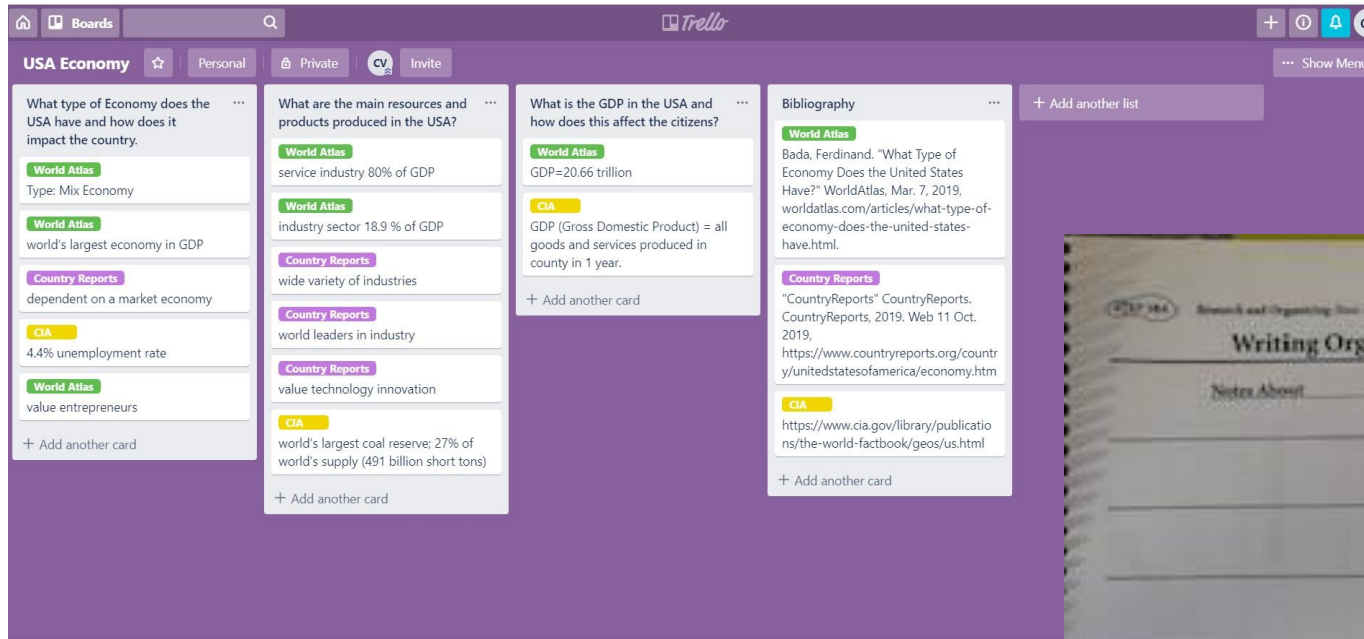
Step 4: Organizing

- Researchers organize information to allow them to analyze and interpret findings for use in a paper or project.

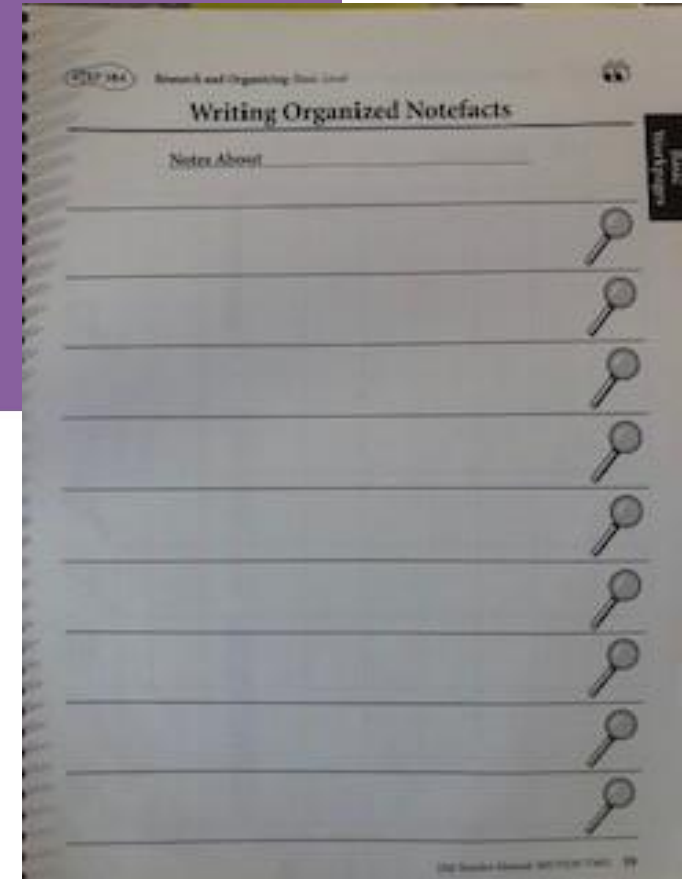




Organizing (6th Grade)



www.trello.com





Step 5: Goal Evaluation

- Researchers check to see if they have fulfilled the assignment requirements and **evaluate the quality of their work** during the first four steps.

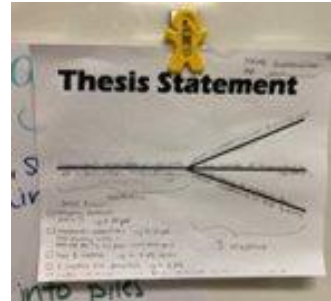




Step 6: Product

Researchers create a product to show what they have learned.

- Research Paper
- Other Product Examples:
 - **Quilt**
 - **Artifacts**
 - Ted Talk
 - Infomercial
 - **Interview**
 - Vlog / Blog
 - Timeline
 - **Podcast Series**
 - Prototype / Model
 - Newscast
 - **Scrapbook**





Step 7: Presentation



Researchers present their findings to an appropriate audience.



GT Academy student present to their families and the community at the GT Academy Student Showcase.





5th Grade TPSP: ***Story Quilt***

Students choose an area of interest (*Environment, History, Technology, Medicine, Space, Education*)

Students work in groups to choose a specific topic to study and generate questions to guide research.

Students use **IIM** to research topic and write a MLA formatted research paper.

Students collaborate to plan and design a quilt to reflect research findings.

Students create final product and present their work at the GTA Student Showcase.



TPSP Timeline: 5th Grade



- **October**
 - Whole Class Intro to IIM
- **November**
 - Choose Topic & Develop Guide Questions
- **December**
 - Research
 - **Notefacts – Due Dec. 13**
- **January**
 - Organize Notefacts
 - **Complete Outline – Due Jan. 24**
 - Write Rough Draft
- **February**
 - **Rough Draft Due – Feb. 14**
 - Editing & Revisions
 - **Bibliography Due – Feb. 21**
- **March**
 - **Final Copy Due – March 5**
 - Plan and Develop Product
- **April**
 - Practice Presentations
- **May 7, 8, 9 – GTA Student Showcase!**



6th Grade TPSP: *Culture Shock*

Students choose an area of interest (*Culture, Government, Geography, History, Economy*).

Students create groups, choose country, and develop guide questions.

Students **research** topic related to their chosen country.

Students write research paper in MLA format including bibliography and 10 glossary words.

Students create a **map** to show their journey through the country, highlighting significant points of interest.

Students create artifacts and final product to present their work (Game/ Vlog / Scrapbook / Interview).



TPSP Timeline: 6th Grade

- **October**
 - Introduce "Culture Shock" TPSP
 - Review IIM / Introduce Trello
- **November**
 - Choose Research Groups
 - Develop Guide Questions / Thesis Statement
 - Research
 - **Notefacts Due November**
- **December**
 - Write Rough Draft in ELAR class
 - Revise / Edit
 - **Final Copy Due Dec. 13 / Jan. 15**
- **February/March**
 - Product Development
- **April**
 - Class Presentations / Peer Evaluations
- **May 7,8,9**
 - GTA Student Showcase @ ESC



Goals of TPSP

- Voice & Choice
- Project Management
- Collaboration
- Group Dynamics
- Research Skills
- Product Development
- Presentation Skills



How Can Parents Support Their Child With TPSP?

- Help locate appropriate resources
 - *Visit the local library*
 - *Sit with your child at the computer to help determine appropriate sources of information*
 - *Print articles to send to school*
- Ask probing questions about topic
- Praise effort, progress, and ability to work with a group
- Give due date reminders / Check Skyward
- Assist with gathering necessary supplies
- Talk positively about skills they are developing
- Encourage student to communicate with teachers when questions / problems arise