

NEW TECHNOLOGIES

Performance Standard 15D.F

Create a poster and write an essay showing how and why technology changes over time accordingly:

- *Knowledge*: Describe changes in one kind of technology over three time periods: past, present, and future.
- *Reasoning*: Analyze the evolution of change in the technology and project a future generation of that technology.
- *Communication*: Create a poster and write an essay that is well-focused, well-organized and well-detailed; express all ideas in a way that provides evidence of knowledge and reasoning processes.

Procedures

1. *In order to understand trade as an exchange of goods or services (15D)*, students should experience sufficient learning opportunities to develop the following skills:
 - Define technology, explain how it changes.
 - Identify technologies that did not exist in the past and might be invented in the future.
2. Have students review and discuss the assessment task and how the rubric will be used to evaluate their work.
3. Have each student prepare a poster that will illustrate the evolution of one kind of technology (i.e., past, present and future). Students should complete the following steps:
 - Research various technologies in newspaper advertising supplements, catalogs, and other sources of information. (Optional: They should look for new technology that did not exist as marketable products prior to their birth.) Students should verify whether the technology they selected is really new. Students must take notes or keep records on the information and sources that support the newness of the selected technology.
 - Identify an earlier generation of the selected technology or an older variation of the same technology (e.g., 54" inch screen TV preceded by the 19" inch TV).
 - Imagine another generation of technology that may someday replace or enhance the technology of the present.
 - Draw or paste cut out pictures of the three generations of the technology on a poster. Each picture should be accompanied by a title and brief explanation of how the technology differs from the other generations of that technology.
4. Ask students to write an essay to explain how the technology changed over time and why each generation is an improvement over the preceding generation.
5. Evaluate each student's work using the Social Science Rubric as follows and add the scores to determine the performance level:
 - *Knowledge*: The description of the changes in one technology was complete and correct.
 - *Reasoning*: The explanations of how and why the technology changed and will change were thorough and accurate.
 - *Communication*: The poster and the written explanation was well-focused, well-organized, and well-detailed; the knowledge and reasoning were completely and effectively communicated.

Examples of Student Work follow

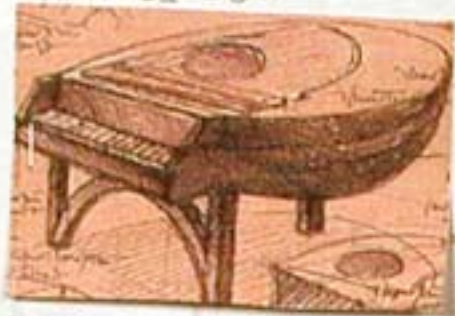
Time Requirements

- Two to four class periods

Resources

- Sunday newspaper advertising supplements, catalogs, and other sources of information on new products
- Poster materials
- Social Science Rubric

HARPSICORD "Meets" (page 1)



PAST

The harpsicord is the early, + form of the piano but instead of hammering the strings like modern piano it plucked them

GRAND PIANO



OLD

The Grand Piano is a modern version of the harpsicord and it hammers the strings and has better.

ELECTRIC PIANO



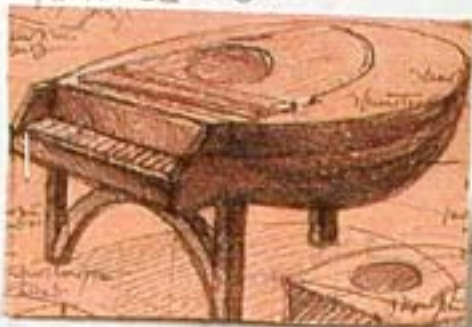
The electric piano is handy because it is smaller than a regular piano and it can make the sounds of different instruments

VOICE ACTIVATED PIANO



With this piano you can say a note, instrument and style and it will go to that selection

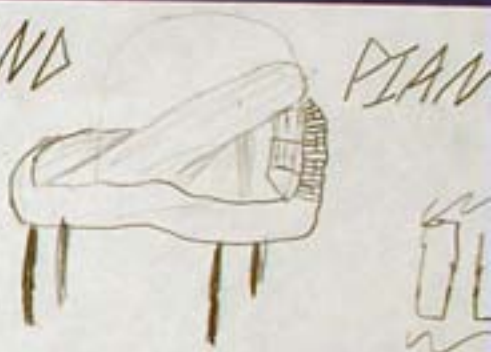
HARPSICORD "Meets" (page 2)



PAST

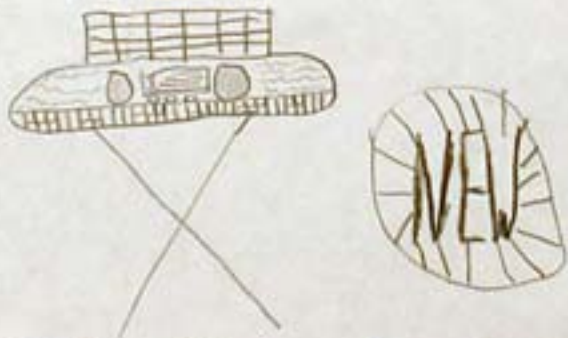
The harpsicord is the earliest form of the piano but instead of hammering the strings like modern piano it plucked them

GRAND PIANO



The Grand Piano is a modification of the harpsicord and it hammers the strings and has better

ELECTRIC PIANO



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HARPSICORD "Meets" (page 3)



PAST

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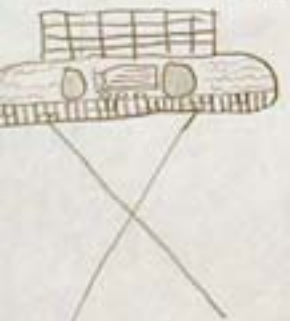
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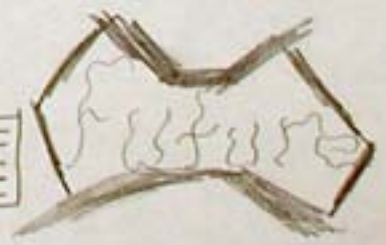
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VOICE ACTIVATED PIANO



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The piano is a big part of our lives. The piano is the basic form of all music. Where did the piano start?

Well, in the early 1800's around the time of Bach and Beethoven the harpsicord was made. It is the early 1st piano and instead of hammering the strings it plucked them.

All the Grand piano was, was an updated version of the harpsicord where the strings were hammered.

The electric piano can play different instruments and it can play music itself.

The voice activated piano will have no keys and will harmonize automatically.

You can see how the piano evolved and will keep going.

"Exceeds" (page 1)

Submarines

First



The first combat submarine was the Turtle. It was used to attack British flagships, men of war, and merchant ships.



WWII



The main subs in WWII are the "S" boats and the Gato class. They could be used for surface attacks and underwater attacks.



Present



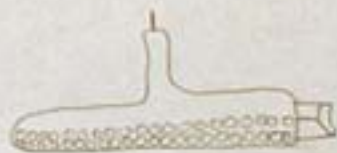
The Tench class subs are the same as the "S" boats and Gato class but they don't have deck guns. They were used for attacks. The Nautilus was the first nuclear powered sub. It was like other subs but it was powerful. The Nautilus and other nuclear subs are not used a lot.



Future

In the future, subs will be water powered. The holes will suck in water.

The sub will patrol for months on end. They will be able to fight with more power. They will be more environmental.



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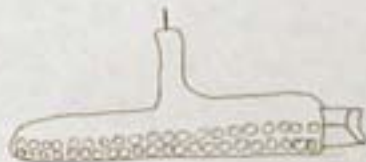
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The submarines are very interesting machines. They sink 300 feet in just a few minutes. They can sink a ship from several miles away. They can go 30 knots under water. Except for the first submarine, the Turtle.

The Turtle was used to attack British ships of all kinds. It wasn't very accurate. The mine was put on a ship by a screw. Then the after many years after the Turtle, the first nuclear powered submarine, the Nautilus came around. It was pretty efficient for the age. It could go faster than any submarine. It was not used for long. Then, in my perspective, the futuristic sub would be powered by water. Water powered subs would be very useful because water is all around the sub.

Submarines are sneaky things. They can creep up on you and BANG! Subs have evolved a lot. From the Turtle to a nuclear powered sub. Maybe the next sub will be water powered.