

Evolution of Technology



The thing that never changes about technology is that it is always changing. The first airplane was more like a glider and now they have self-propelling jets. Computers that once needed an entire room to fit into, not can fit in our pockets (and it is faster and better). You will be looking at a piece of technology and analyzing how it has changed over time and why this is.

Depth and Complexity icon:
Change Over Time

Product: 5 to 10 snapshots of the evolution of your piece of technology.

Skills:

- Research
- Analysis
- Reflection

Calendar:

Introduce icon and show example of phone		Brainstorm ideas of technology you might want to show the evolution of	Research	
Work on snapshots		Work on snapshots	Snapshot gallery	

Lesson 1 – Introduction to Change Over Time

Change Over Time

The relation of something in the past, present, and future. What changes and why do they do so?

As a class look at how the phone has changed over the past 150 years



<https://static1.squarespace.com/static/5a863925d0e628ff0573233c/t/5eac31c898481461f53a08ca/1588343277274/Evolution+of+Phone.pdf>

Questions:

- What changes did you notice?
- Were these changes for the better?
- Why do you think these changes were made?
- Do you think these changes had to be made?
- What do you think the future brings for phones?

Lesson 2 – Brainstorm ideas

Students will brainstorm pieces of technology they would like to focus their project on.

Brainstorming

What are 5 pieces of technology you think it would be interesting to following its evolution?

- 1.
- 2.
- 3.
- 4.
- 5.

Do a basic internet search using Google Images; are you easily finding photos that could be used for your snapshots?

1. yes no
2. yes no
3. yes no
4. yes no
5. yes no

Of the ones you circled yes for, which one do you think would make for the more interesting choice?

Lesson 3 – Collecting snapshots

You should be finding visuals of the various points in the timeline of the evolution of your piece of technology.

As you find them, be sure to label the following:

- A brief description of the change
- The time period that the change occurred
- Its specific name if it has one

Product choices:

- Poster
- Slideshow
- Video
- Timeline

Lesson 4 – Gallery Walk

Class will have a gallery walk where they look at classmates' snapshots. They will reflect on the following questions:

- Which piece of technology has progressed the fastest?
- Which piece of technology do you think has progressed the most?
- Pick a piece of technology not your own. How do you think the world would be different if it had not changed over time?
- For your piece of technology, what changes were there and what about them make the piece of technology better over time?
- Which piece of technology are you excited about changes that might come about in the coming years?



	Snapshots	Display	Reflection
Excellent	<ul style="list-style-type: none"> • 8-10 snapshots are used. • Snapshots are clear and large enough to be seen easily. • Snapshots represent the evolution of this piece of technology fully with a clear progression. 	<ul style="list-style-type: none"> • How the snapshots are displayed are easily seen by people in a gallery walk. • How snapshots are displayed is pleasing and eye catching, making it look very professional. • Display has all parts properly labeled in detail. 	<ul style="list-style-type: none"> • Reflection looks at the trends over time in detail. • Reflection explains in-depth how technology has changed over time and more importantly, why. • Reflection predicts logically in detail what future technology might hold.
Good	<ul style="list-style-type: none"> • 5 snapshots are used. • Snapshots are mostly clear but one or two has details that are blurry or too small. • Snapshots represent the evolution of this piece of technology with a clear progression but seems to be a couple of obvious gaps. 	<ul style="list-style-type: none"> • How most of the snapshots are displayed are easily seen by people in a gallery walk but one or two difficult to catch. • How snapshots are displayed is pleasing and eye catching, making it look like a high quality student project. • Display has all parts properly labeled but not in much detail. 	<ul style="list-style-type: none"> • Reflection gives a basic explanation of trends over time. • Reflection explains how technology has changed over time and more importantly, why, but not with much detail. • Reflection predicts logically what future technology might hold but could be further explained.
Needs improvement	<ul style="list-style-type: none"> • Less than 5 snapshots are used. • Snapshots are not clear or too small to be seen easily. • Snapshots do not represent the full evolution of this piece of technology, only a small part. 	<ul style="list-style-type: none"> • How snapshots are displayed are not easily seen by people in a gallery walk. • How snapshots are displayed is not pleasing and/or eye catching, making it look like a rushed project. • Display does not have all parts properly labeled. 	<ul style="list-style-type: none"> • Reflection does not look at the trends over time or is confusing. • Reflection does not explain how technology has changed over time or does not include why. • Reflection does not predict logically what future technology might hold.

