

Creativity and Innovation Teacher Guide

NETS CREATIVITY AND INNOVATION STANDARDS

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.

- a. Apply existing knowledge to generate new ideas, products, or processes
- b. Create original works as a means of personal or group expression
- c. Use models and simulations to explore complex systems and issues
- d. Identify trends and forecast possibilities



INTRODUCTION

Students are invited to participate in a White House Blogging Project where they will be considered moderators and will also be allowed to participate. Students will need to be introduced to the following terms: blogs and moderators.

Related Skill	Illustration
<p>Good day, today we will be working on creativity and innovation. To do this we will be time traveling to the past and exploring the development of technology. To begin the travel click on the red arrow</p>	A futuristic, silver, open-top car with a complex dashboard and various mechanical details. At the bottom of the image, there is a red button with a white right-pointing arrow and the text "CREATIVITY AND INNOVATION Time Travel" above it. <p>CREATIVITY AND INNOVATION Time Travel</p>

In front of you, you have multiple phone devices, in a small group discuss the changes that you see throughout each device. (PAUSE)

- allow time for discussion and share
- document the changes mentioned on the board

The main features that have changed throughout the years are:

- mobility: the oldest phone did not have the capabilities to go from place to place
- Size: as phone became more mobile sizes of phones have decreased
- Dials: The transition from rotary phones (the ones that had the dials that spun), to buttons, and now most common being the touch screen

Please click on the red arrow



Let's take a look at these four screens, they are all different versions or models of what? (pause)
This was a tough one, they are all versions of operating systems (windows) and how they have changed over the years.

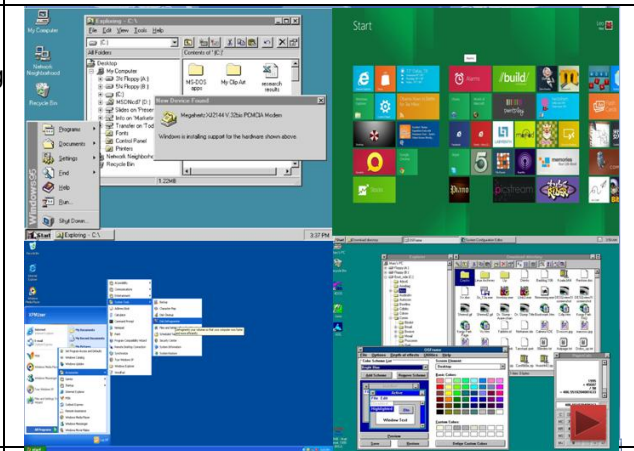
In a small group discuss the changes that you see as the versions were upgraded (PAUSE)

- allow time for discussion and share
- document the changes mentioned on the board

The main change we should have noticed was:

- Appearance: the versions transitioned from folders to icons to apps

Please click on the red arrow

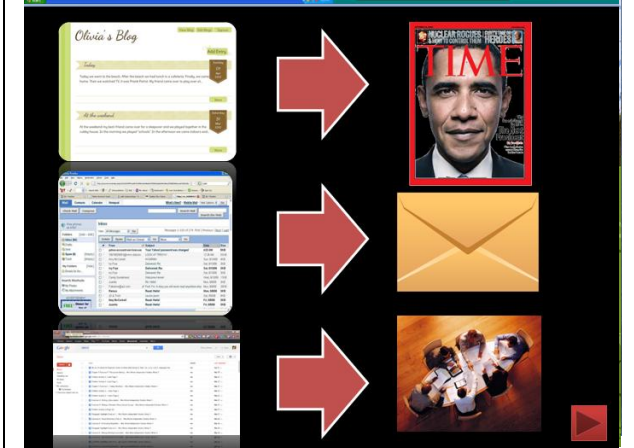


Here we have 3 upgrades:

-Let's take a look at the 1st one a blog vs. a magazine:
What are the benefits of using a blog rather than a magazine

- allow time for discussion and share
- Number 2, Email vs. Mail: What are the benefits of using email vs. mail
- allow time for discussion and share
- Number 3 Collaborative documents, like Google Docs vs. meeting face to face: What are the benefits of using collaborative documents vs. meeting face to face
- allow time for discussion and share

Please click on the red arrow



There have been some great discussions on this time travel and your participation is appreciated. We have seen the changes of technology over time some greater than others.

Congratulations you have completed Creativity and Innovation

