

Cloning Virtual Labs

Make sure you have sound and some headphones for today's extraordinary Genetics fieldtrip!

CopyCat! Activity #1

Go to http://nature.ca/genome/index_e.cfm - *The GEEE! in Gemome – home page*

Click on "Try It", Then click on "Online Games", Next click on "CopyCat!" (play)

1. Describe which kitten was the copycat kitten? How did you know?
2. Were you surprised that the cloned kitten did not have the same fur color?
3. Who is the most famous clone?
4. Explain the process used to clone "CC" from "Rainbow."
5. Why did "CC" look different from "Rainbow?"

Activity #2

"Fact or Fake?"--- Same website but a different online game. Click on "Play"

1. Fact or Fake – The word "clone" comes from an ancient Greek word that means "twig." Explain...
2. Fact or Fake – Dolly the sheep is the first artificial clone. Explain.....
3. Fact or Fake – Dolly aged prematurely. Explain....
4. Fact or Fake – Cloning can bring extinct species like the mammoth to life. Explain
5. Fact or Fake - Scientists cloned a human child. Explain....
6. Fact or Fake – Therapeutic cloning is used to create kidneys. Explain....

Mouse Cloning Activity part #3:

Go to: <http://learn.genetics.utah.edu/content/tech/cloning/clickandclone/>

Perform the virtual lab steps as the program tells you and answer the following questions along the way:

What tools are needed for successful animal cloning?

What are the 6 major steps needed for cloning the mouse?

What are the roles of each of the following mice?

-Mimi:

-Megdo:

-Momi:

What color will the mouse pup clone be?

Finish early? Turn your assignment into the Edmodo drop box...please don't sit in the room and rot away...

Check out more of the genetic and cloning games at the first website to keep yourself entertained: http://nature.ca/genome/04/041/041_e.cfm