

Training Hub: Using digital technology to enhance learning

Including technology and digital tools when instructing can help learners to **retain knowledge** and **integrate skills**. Here are some suggestions for incorporating these into life science training across different skill levels!

Bookmark three protein folding web tools



Remember

Level 1: Good for absolute beginners.

Search Wikipedia for the history of Sanger sequencing

Run this proteomics analysis on your own dataset

Edit errors in this R code



Apply

Level 3: Using skills or knowledge in new situations

Comment on this preprint with something you found interesting



Understand

Level 2: Explaining concepts and ideas

Present your research to kids with Skype a Scientist

Upload your code to GitHub

Annotate this python code with the purpose of each function

Subscribe to the reproducibiliTeach YouTube channel

Share this paper on social media with a snippet of what you liked

Write a collaborative document with sources for your code



Analyze

Level 4: Drawing connections between ideas

Determine if the output from the AI tool Ellicit is accurate

Curate a shared Zotero library of clinical genomics research

Validate a protocol from protocols.io

Draw a mind map of mitochondrial energy metabolism in health and disease using Miro

Moderate an online panel or session of research talks

Review a preprint



Evaluate

Level 5: Explain the logic behind making a decision or interpretation

Contribute to a virtual journal club

Contribute to a science podcast

Write a blog post on career paths for staff scientists



Create

Level 6: Creating or producing original work

Publish a website for your course, research, or scientific profile

Film a video demonstrating a protocol you have adapted

Sources:

1. Churches, A. (2007) Bloom's Digital Taxonomy
2. Anderson, L.W. and Krathwohl, D.R. (2001) A taxonomy for learning, teaching, and assessing: a revision of Bloom's taxonomy of educational objectives



Created by the SciLifeLab Training Hub
Have a question or want to know more about training?

Connect with us at traininghub@scilifelab.se



training.scilifelab.se