



(ENG) Find the Mistakes

Introduction

Step 1 - Motivational Stage

Step 2 - Investigational Stage

Step 3 - Consolidation Stage

Introduction



#Online activity #In-class activity #Inquiry-based learning
#Experiential learning #Gamified learning #Artwork #Sculpture

Pupils examine a staged photo, where there are 10 mistakes on laboratory safety.

Learning Objectives



understand the important elements of laboratory safety by looking for the mistakes in a staged photo

ACTIVITY DETAILS

Activity Details

Connection of the activity with Art —

Popular culture (comics, movies)

Art - sculpture

Visual literacy



Link to local, national School Curriculum —

General & Safety/ Laboratory equipment safety



Equipment required —

- Connection to the Internet



Duration of activity —

45 minutes



Sources —

Heureka / Paula Havaste, Free to use



Step 1 - Motivational Stage



Ask the pupils the following question:



“ Can you find the safety faults in a photo taken in a lab? ”

Step 2 - Investigational Stage



STUDENTS' TASKS




The pupils are told to look at the staged photo of a reckless lab worker and **list what kind of risky elements they can find.**

The pupils examine the staged photograph and look for the risk factors in laboratory safety. Finding five mistakes is already a good achievement, ten is a perfect set.

You can check the right answers from the following list and use some time to discuss with the pupils why these mistakes are risky at a laboratory.

- eating at a lab is dangerous
- bare feet are a risk in laboratory
- jacket should be buttoned
- open hair is unsafe

- goggles should protect your eyes, not your forehead
- protective gloves are not helpful on the table - you should wear them
- there are tripping hazards on the floor
- table is messy
- there seems to be a reckless smoking experiment in progress
- you should have an open access to the emergency shower

 You can also use this activity as a game for the pupils. Who of them finds out 5 or 7 mistakes the fastest?

Additional task

The following activity is suitable as an additional task for advanced and fast learners:

Working at a lab is riskier than creating art - but some art pieces have been extremely dangerous, too. Pupils can find out more by reading an article or look at the pictures on it and try to find out what would be risky on those sculptures.

Look at the pictures and try to find out what would be risky on those sculptures.

[READ THE ARTICLE](#)

Step 3 - Consolidation Stage



Assign pupils to search the web for information about the mad scientist archetype. Dr. Viktor Frankenstein is perhaps the first of the mad scientists, another classic is Dr. Henry Jekyll. Doc Brown, Dr. Julius No and Bruce Banner from the Hulk comics are known from movies.

[LINK](#)

i After pupils have chosen one character, their task is to find photos/pictures of that character in his lab. Are there any security

flaws there?

End of the activity

EXIT