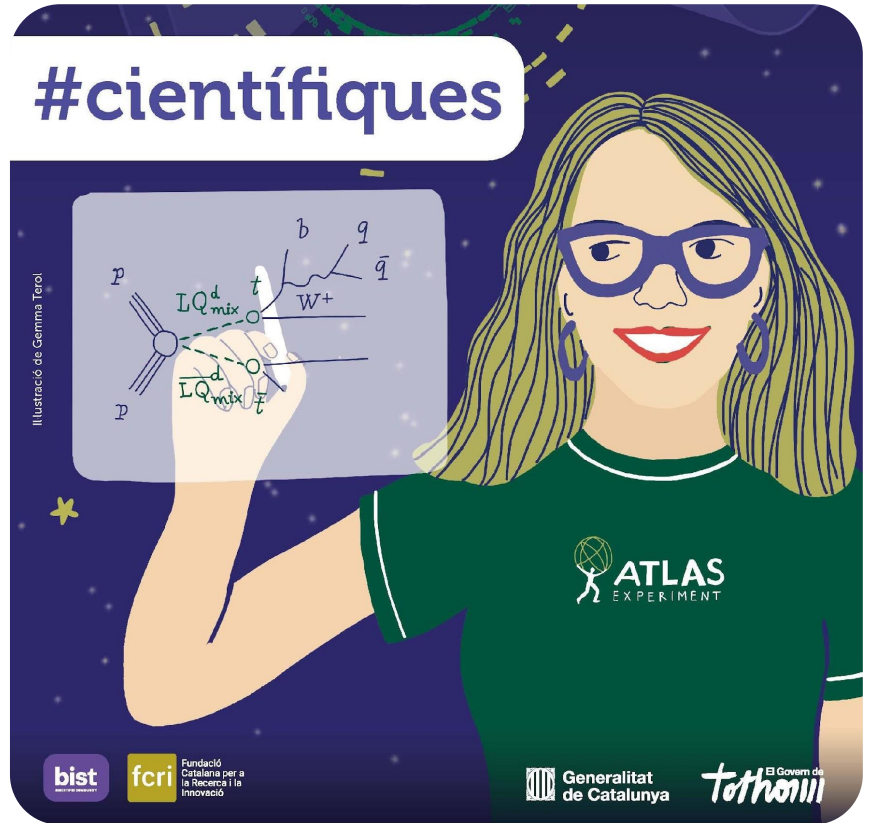


Workshop to prepare the
talk
January-February 2026

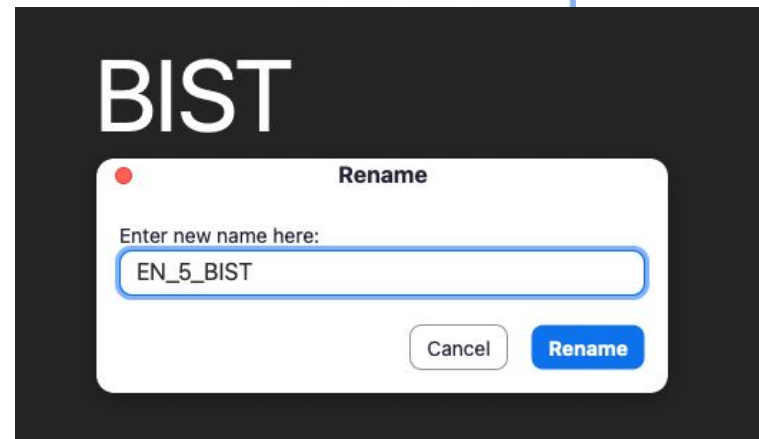
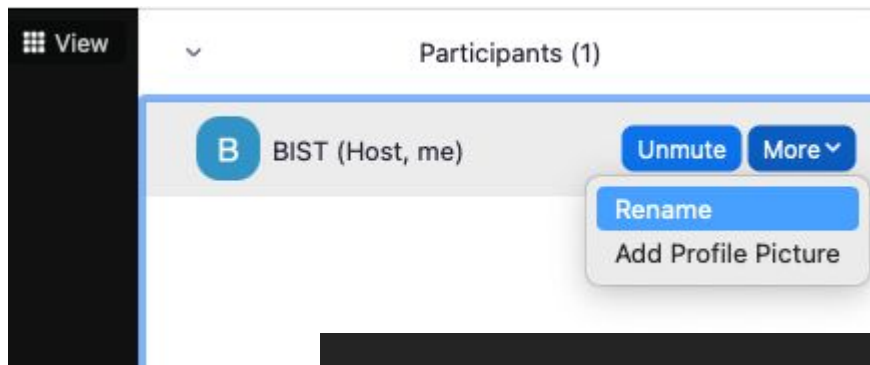


#científiques

Group work sessions

Change your ZOOM name to:

- Language
- Number of times I have participated in #cientíques
- First name



Today's session

- Recommendations for the talk
- We will divide into groups
 - What will you explain on the 11th?
 - Group feedback
 - The volunteers will guide you

Objectives for the February 11 session

- Meet a scientist
- Discover your research
- Break stereotypes
- Sparkle curiosity



Main messages

- You don't have to be special to do science
- Everyone can use scientific reasoning
- Understanding science makes us happier
- Science needs people like you (like them...)



We also want to...

- Show the diversity of the Catalan research ecosystem
- Visualize the research environment of the researchers



Materials 2026

Support materials for Scientists



PowerPoint Template

This template model will help you prepare your presentation for your talk.



Data protection

It is likely that photos and/or videos will be taken of you at the venue where you will give your talk. Authorize the use of your image by filling out this document and uploading it in .PDF format to the registration form.



How to prepare your talk? .PPT of the 2024 training session

How to prepare your talk? Video of the 2022 training session

[Template](#)

#científiques

Recommendations: timing

1 hour in total

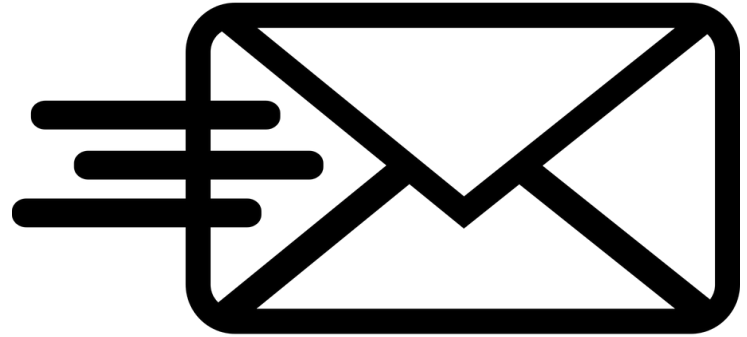
- Welcome + icebreaker questions
- 15-20 min personal presentation
- 20-25 min research/work presentation
- Last minutes: student's questions



Recommendations

Once you have the contact details of the assigned teacher, get in touch with them!

- Ask about the number of students
- What is the class like?
- Will the research or project topic be relevant to them?
- Are they following the didactic materials?



EXPLAINING OUR RESEARCH

#científiques

First of all...

Communication 101

- *Core message* → Your research / work
- *Target audience* → Teenagers

What to explain?

What will they find more interesting?

You and your research

- What?
- Where?
- Who? With whom?
- When?
- How?
- Why?

What to explain?

What will they find more interesting?

You and your research

- What?
- Where?
- **Who? With whom?**
- When?
- How?
- **Why?**

What to explain?

What will they find more interesting?

You and your research

- What?
- Where?
- **Who? With whom?**
- When?
- How?
- **Why?**



What if I don't research?
Explain your work!

Objective: To make visible
all types of professions
related to science and
technology.



What to explain?

What will they find more interesting?

You and your research

- What?
- Where?
- **Who? With whom?**
- When?
- How?
- **Why?**

Hidden messages

What we say without noticing...

- **Science and scientist's social perception**
- **Gender roles**
- Language education
- Visual education
- ...



Materials 2025

Support materials for Scientists



PowerPoint Template

This template model will help you prepare your presentation for your talk.



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How to prepare your talk? .PPT of the 2024 training session

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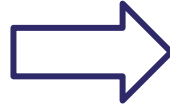
[Template](#)

#científiques

Our goal



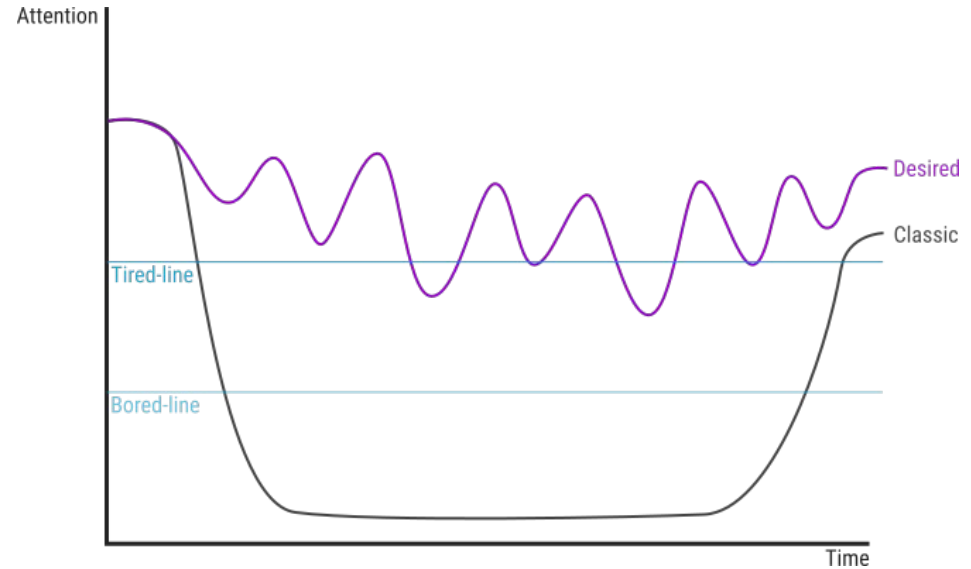
INFORMATION



INSPIRATION

Tools: Attention curve

- Presentation divided in recognizable parts with summaries at the end
- Surprise, comedy (You don't need a joke)
- Voice modulation



From [How to Give Successful Oral Presentations](#).

Scientificleaders.com

#cientíiques

Tools



#científiques

Tools: Scissors

Reduce to the essence

- What is really the main message?
- What do they need in order to understand it?

Put yourself in your audience's shoes



Rainbows - Walter Lewin

Microwaves
explained in
9.9999 seconds

Eines: Throughline

Frame it as a journey

Don't be schematic

Tell a story, don't list facts

It will serve as a filter

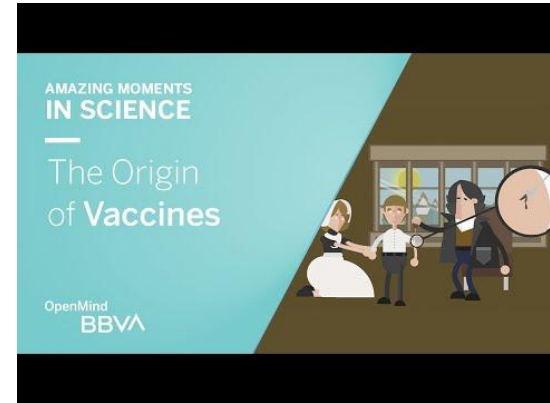
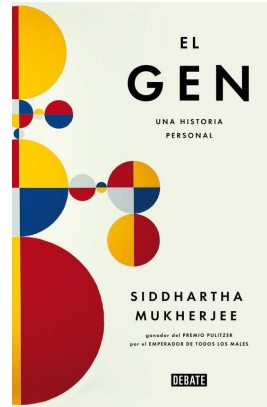


Tools: Stories and emotions

Is there a personal story about how we ended up in this research?

Is it possible to make an emotional bond with our audience?

Can you structure the talk as a story?



Tools: What they know

Previous knowledge

- Theoretical (Curricula)
- Real

They are not a *tabula rasa*



[Enseñando ciencia con ciencia - FECYT - Lilly](#)

#científiques

Tools: Participation

- Ask questions
- Ask for opinion
- Small quiz
- Small experiment
- Online tools (quizizz, kahoot)

How to manage it (talk to the teacher):

- Raise your hands
- Give the floor



Tools: Language

Adapt your language

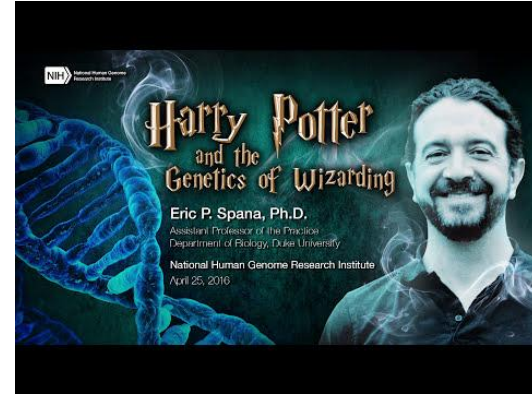
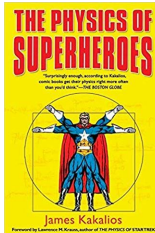
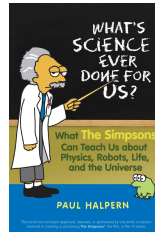
- Don't underestimate them
- Don't overestimate them
- Use less tables and graphs (or none at all)
- Mind the slang! Reduce the «sciency-words»



Tools: Relations

Can I relate my research with...

- Their everyday reality?
- Some well-known applications?
- Pop references? Mind the trends!
- Art / Beauty

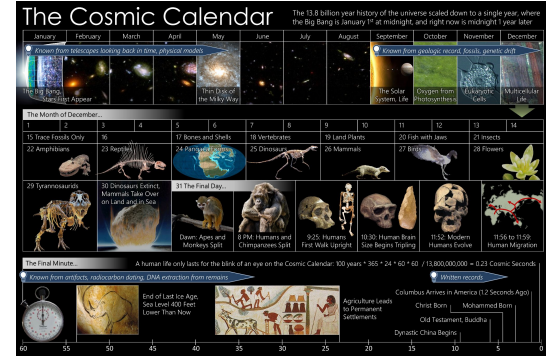


Comparisons and metaphors

Analyze them well before using them

Robust comparisons

Don't stretch them

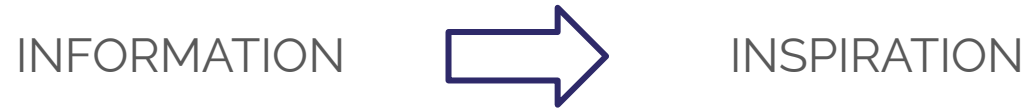


Tools: Surprise

- Comedy
- Voice modulation / enthusiasm
- Body language
- Participation
- Resources in your presentation



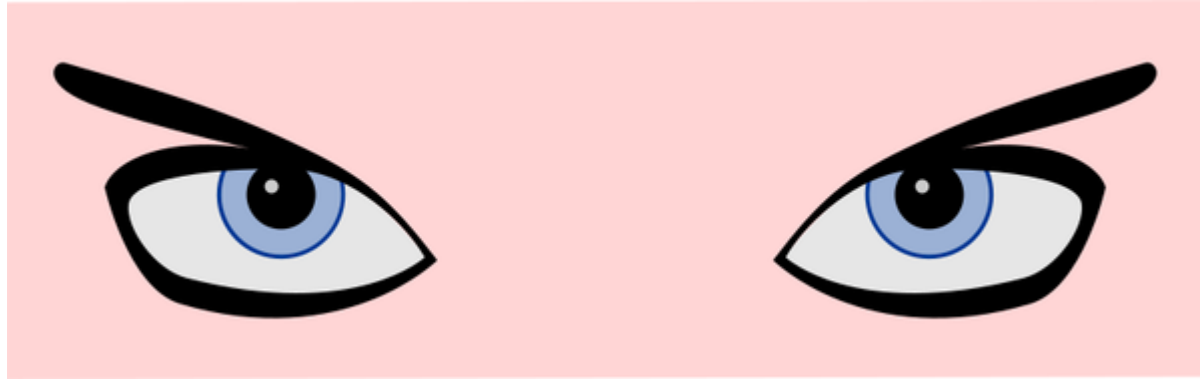
Effective communication



Effective communication

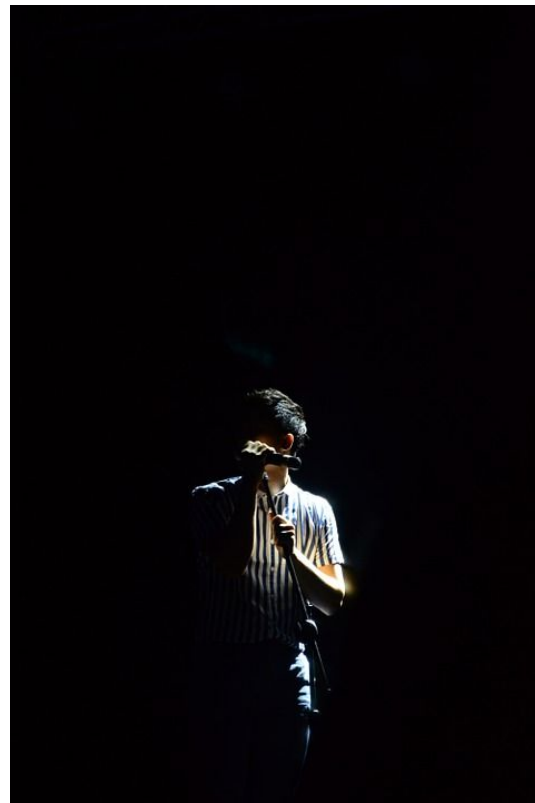
Non-verbal communication

- Eye contact (scan the room)
- Move with intention
- Relaxed posture



On stage

- Positive attitude:
 - You find the topic interesting
 - They are also interesting
- Be yourself:
 - Natural
 - Approachable and relatable
- React to mistakes:
 - Be honest: dry throat, getting lost, or going blank
- Be realistic — you don't need to know everything

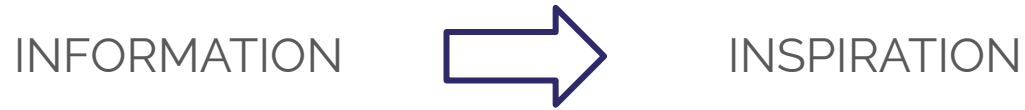


Voice

- Intensity:
 - Too much volume: erases the melody of speech, can indicate insecurity
- Rhythm:
 - Consistent, with emphasis and variation
 - Moments of calm, reflection, and silence
 - Relevant information:
 - Speak slower
 - Clear diction
- Avoid:
 - Apathy — boredom and disengagement
 - Repetition — sounding tired



Effective communication



- Connection
- Engagement
- Curiosity
- Empathy
- Excitement
- Authenticity

GROUP WORKSHOPS

#científiques

Tell me about your research

Make a **4-5-minute** summary of what you will explain on the 11th at the educational centre.

- What is your research about (in a couple of sentences)
- What will you explain to the students: how will you introduce the research topic, etc
- Science communication tools ([see tools](#)) you will use
- Possible dynamics for interacting with students
- A (very short!!) look at the presentation you will be using

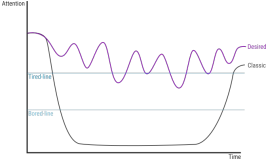
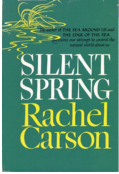
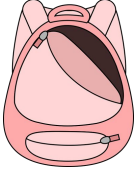
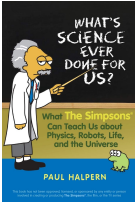


What do the others do?

- Write down what you found more interesting about the presentation.
 - What is the main message/s?
 - Has she used any of the tools to communicate science?
- Come up with ideas to suggest to your colleague



Tools

Attention curve	Stories	Previous knowledge	Participation	Language
				
Relationships	Similes and metaphors	Interdisciplinarity	Beauty	Surprise / Humor
				

Group work sessions

- What? (main message)
- Who? With whom?
- Why am I doing this research? Can I tell a story?
- How do I do research?
- What else do I do besides science?
- How can I break gender stereotypes with my talk?
- And the scientific stereotypes?
- Can I relate my research to its immediate reality?
- And with pop culture?
- And with other areas of knowledge? Art?
- Can I use a metaphor?
- How can I surprise them?
- Is there beauty in my search?

Group work sessions

Role of the “guides”: control the time. Be very strict.

- 5 minutes to prepare
- 5 minutes to present
- 6 minutes to give feedback (this part can be adjusted depending on the remaining time and the number of participants)

Group work sessions

Encourage comments or provide feedback. Feedback we can give (always positive):

- Is the main message clear?
- Has a story been told, or could one be told?
- Has an emotion been evoked, or could one be evoked?
- Is the content adapted and suitable for 6th grade primary / 1st year secondary (ages 11–13)?
- Does it establish, or could it establish, a connection to everyday life?
- Does it establish, or could it establish, a connection to a pop culture reference?
- Is the pop culture reference suitable for their age, and will they recognize it?
- Is there a simile or metaphor, or could one be added?
- Is there an element of surprise or humor, or could one be included?