

Title: What do they do?

Educational level: Second cycle of Primary Education.

Curricular areas: Natural Science.

Timing: in any term.



Summary

Using a tree diagram, the students will classify different professions related to the scientific field.

Afterwards, the students will create their own tree diagram on a topic that interests them.



Aims



- Familiarise themselves with the use of tree diagrams as a tool for data classification, as well as other uses of them.
- Know professions related to the scientific field and their corresponding functions, as well as how they can be classified into different branches.

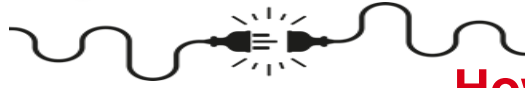
Key competencies to develop:

Mathematical competence and competence in science, technology, and engineering.

Digital competence.

Personal, social, and learning to learn competence.





How do we do it?



First part:

1. Once content related to scientific professions in Natural Sciences has been covered, the students will complete the attached worksheet on scientific professions, familiarising themselves with the use of tree diagrams as a tool for making classifications.

Group reflection: the teacher can pose questions to the group such as: Why is it called a tree diagram? What do the branches indicate? What can it be used for?...

Second part:

2. In the classroom, various types of tree diagrams will be explored, along with their different uses (see infographic included in the resources).

Third part:

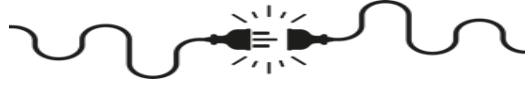
3. The students will create their own tree diagram on a topic of their interest based on the information received previously.
4. The students will explain their work to the rest of the class by preparing a short argumentative speech of 1-2 minutes that encourages their peers to continue researching the topic.



Suggestions

Using tree diagrams can be very helpful for organising different types of educational content. They not only help to organise information and ideas but also support problem-solving and decision-making.





Resources

- **Human:** teacher and students.
- **Material:** worksheet, paper, and writing utensils.

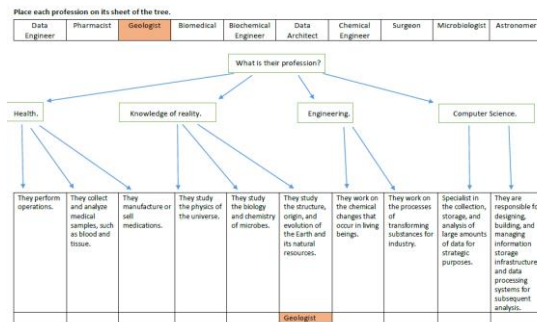


Space: classroom.

Type of activity: individual.



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Unplugged Activity

Tree diagram

A way to organize content of interest schematically and graphically. It resembles a tree and follows a hierarchical organization by levels, with main branches and nodes from which several secondary branches emerge.

They have applications in multiple fields: education, research, business, and commerce. They can serve as visual aids for synthesizing and memorizing topics, for project planning, or for evaluating strategies and possible outcomes.

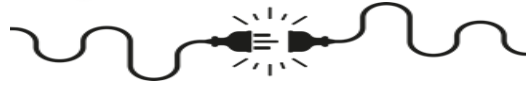
Some types are:

- Decision tree diagram:** used for making decisions by graphically representing the outcomes of different actions or events.
- Problem or objective tree diagram:** used to identify the root of a problem and to represent the steps needed to achieve a goal.
- Probability tree diagram:** used in mathematics to represent counting problems and probabilities.
- Family tree diagram:** shows family relationships.
- Organizational tree diagram:** the organizational chart of a company and its team.
- Classification tree diagram:** used to indicate types and subtypes of categories and their relationships.

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What have we learned?

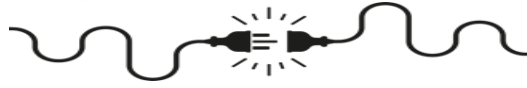
Assessment Criteria	5 Excellent	4 Very good	3 Satisfactory	2 Needs improvement
Correctly classify the professions.	Correctly classifies the ten professions.	Correctly classifies eight professions.	Correctly classifies six professions.	Correctly classifies four or fewer professions.
Create your own tree diagram.	Creates a tree diagram with more than three levels.	Creates a tree diagram with three levels.	Creates a tree diagram with two levels.	Does not create a tree diagram.



Computational Thinking

Logic (prediction and analysis): thinking to make predictions, solve problems and make decisions based on available information.

Abstraction (delete unnecessary details): simplifying things in a problem hiding unnecessary details or aspects to focus on those which are relevant and essential.



More information

QR codes to the activity resources:

Worksheet



Infographic

