Istituto Comprensivo Secondo Milazzo(ME)

ERASMUS +

"USING TK TOOLS IN THE PROCESS OF EARLY EDUCATION"

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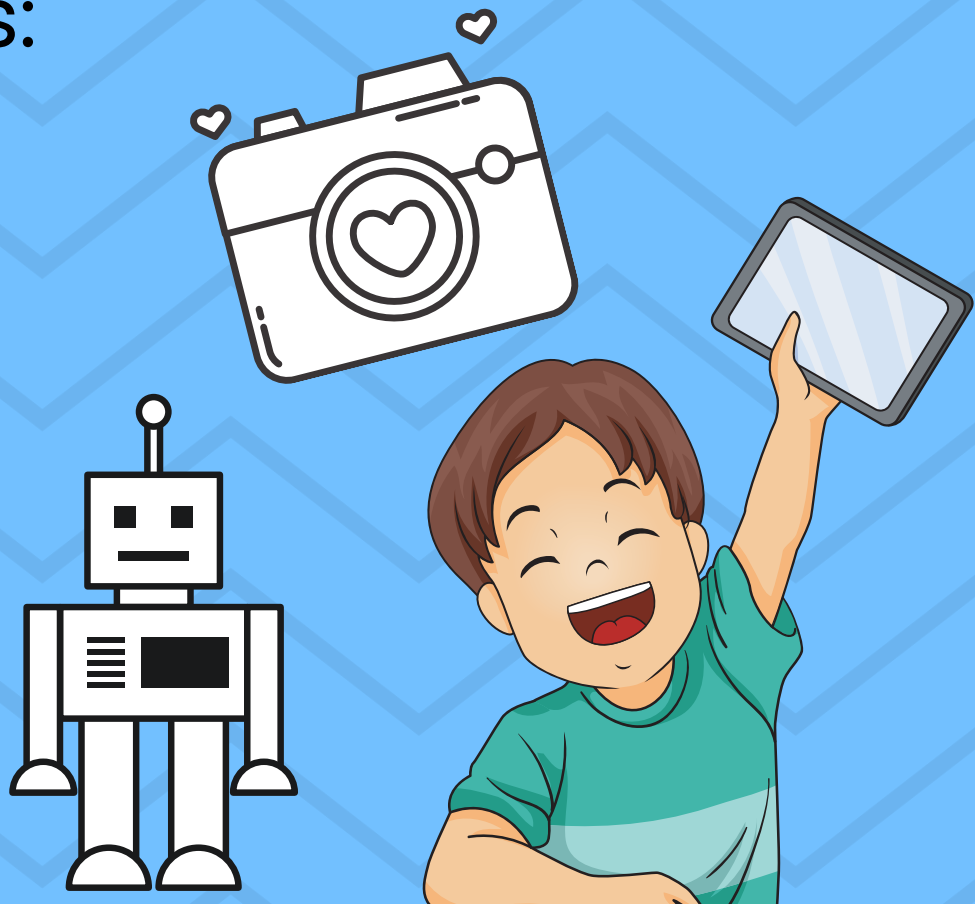
In early childhood education , the term ICT includes:

- computer hardware and software
- digital cameras and video cameras
- the Internet
- programmable toys,
- many other devices and resources



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Technology , when properly used, has many benefits for supporting children's learning :

- learning new words;
- new songs;
- developing problem solving skills;
- increasing creativity and freedom of expression
- increasing cooperation
- it motivates children and allows them to search for information and create strategies
- ICT supports metacognition or **'learning to learn'.**

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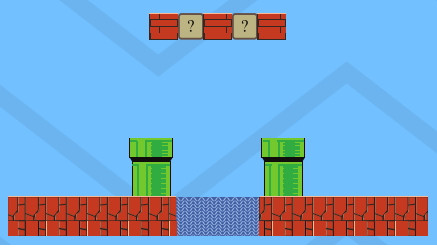
The knowledge and use of ICT in early childhood is important because it allows children to develop various **skills.**

1st they promote skills related to the use of computers or tablets, like tactile, auditory and visual abilities.

In 2nd place, children develop other skills related to the didactic programs, games and applications they encounter



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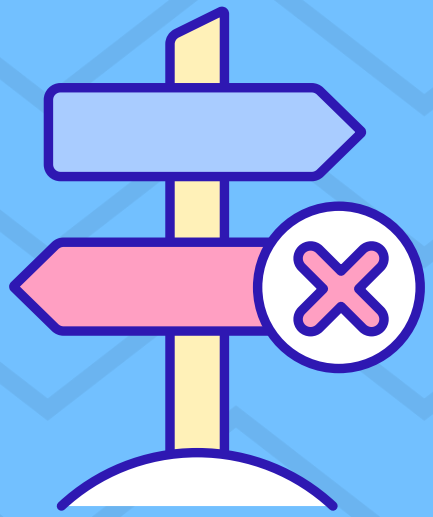
What are the advantages of ICT tools in early age?



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Creative Development :

Creativity is essential for successful learning and it can lead to children having the most fun and enjoyment. Creativity can be spontaneous.

It encourages children to explore and discover for themselves, and helps them make links across all areas of learning and development.

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What are the advantages of ICT tools in early age?

The creative area of learning includes arts & crafts, music, dance, imaginative play and role play.

It is about giving children opportunities to develop their own ideas and express themselves in many forms.

ICT resources can enable this development.

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The **video recorder** can record all kinds of imaginative play, such as **dressing up** and **puppetry**.

Playing back what was previously recorded gives children an audience and appreciation for their creativity.

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Musical Development:

The **voice recorder/player** is a very flexible learning resource.

Children can compose and perform their own musical compositions using percussion instruments that they made themselves.

These compositions can be recorded.

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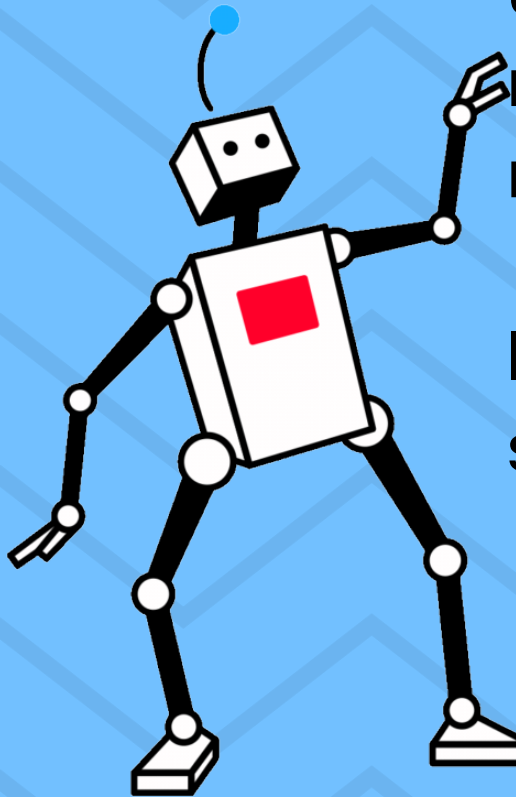

The voice recorder/player can also be used to listen quietly to music or children might enjoy moving and dancing to the music.

Through music softwares children can listen, imitate and experiment with sounds and movement.

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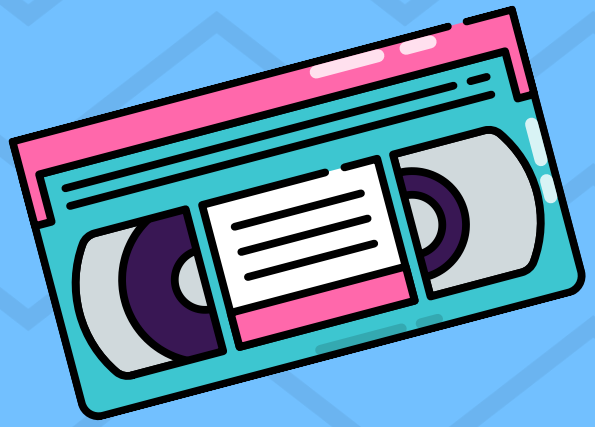

Tape recorders with karaoke devices encourage children in singing simple songs from memory and can also facilitate role play sessions.

Music software and music used from the Internet can encourage children to enjoy music from different cultures

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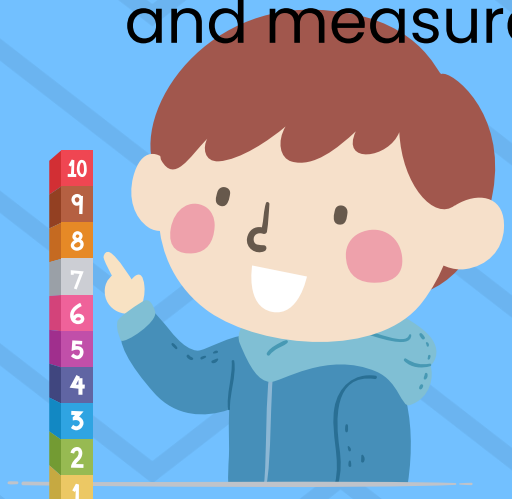
Problem Solving and Mathematical Development:

Becoming confident with maths is essential during childhood. Actually, maths is everywhere in everyday life and includes counting, sorting, matching, sequencing, seeking patterns, making connections, understanding number values, recognising shape and measure and building spatial awareness.



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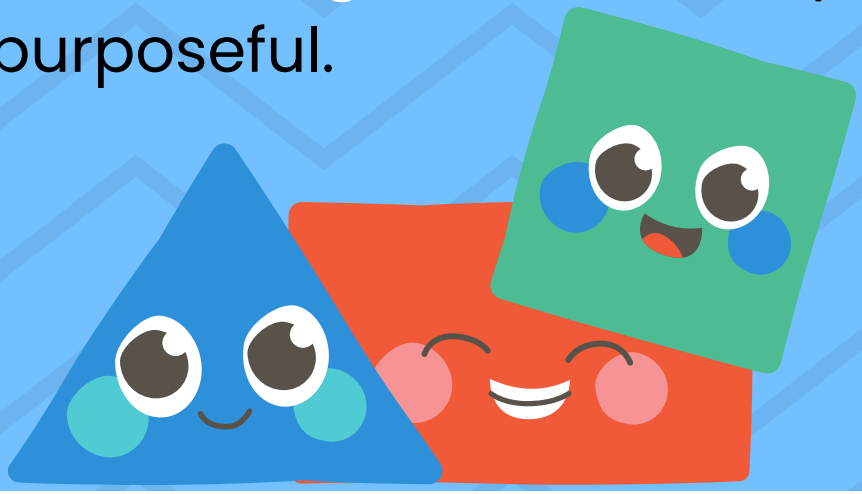
The ways in which young children are taught these processes and engagde in mathematical activities will affect their attitude, motivation and confidence with mathematics throughout their lives.

ICT has an important part to play in developing children's mathematical concepts. It is **highly motivating** and can help make learning exciting, enjoyable and purposeful.



Do not
forget

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ICT use in childcare services does not simply mean
**"children
using computers"**

Developmental impact appears to be greater when the computer
is used as a **support** to active learning, not as an end goal in and of itself.

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Do not forget

The teacher's role is basic, acting as a mediator and a facilitator of knowledge,

Teachers are not only responsible for teaching how new technologies work and how to use them. Rather, they must also teach about critical and responsible use of the information children access.

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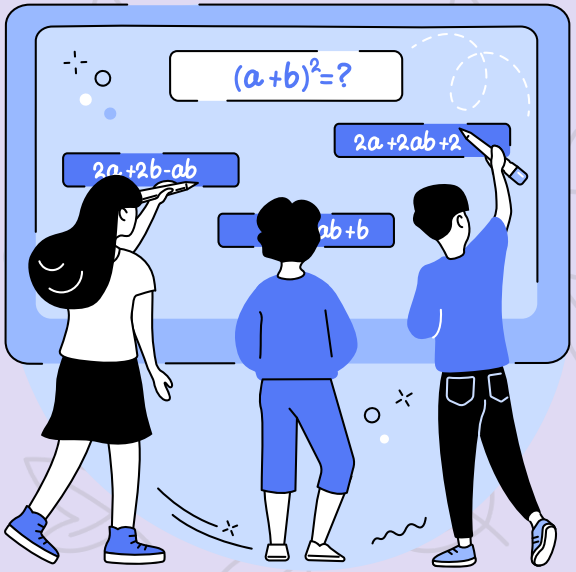
Do not forget

First we have to think about ‘what’ we want to teach and ‘how’ we want to teach it, and then ‘with which’ medium: the digital whiteboard, the tablet or any other technological medium you consider appropriate,”



Children need contact with others and with nature, to read stories, and to develop both emotionally and socially.

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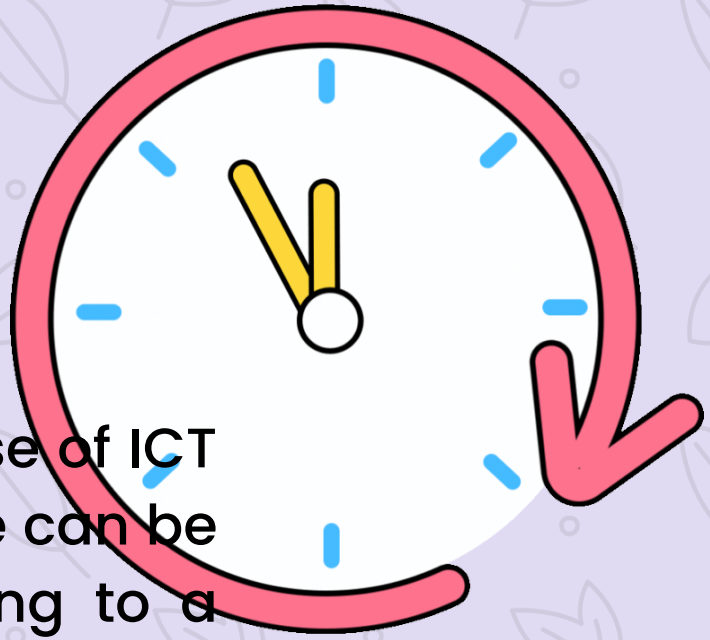
Do not forget

Students must understand that it is a learning tool, not a game, so we also work on responsibility and time management.



At the same time, it's also important to limit the use of ICT in preschool and kindergarten. Prolonged exposure can be harmful – affecting a child's posture, and leading to a sedentary lifestyle and antisocial behavior.

"THANKS FOR YOUR ATTENTION"