

# Children

Differences between humans and robots  
Knowing that humans and robots are different.

Moral principles: humans and robots  
Recognise that humans act according to moral principles, but robots do not

Operation of the robots through programming  
Understand that actions performed by a robot are only possible because of programming;



# Robots as pets

Materials

Tablet + Tamagotchi game

(or similar games Axolochi, Pet Dog, Huggy)

Preparation

Install Tamagotchi game into your tablet (for example Catgotch) or PakkaPets. You are also free to use other similar games.

Implementation

The children can choose one of the Tamagotchi characters and explain their choice. Try to raise Tamagotchi Pet for a few days. Teacher initiates discussion with children about the pet.

Reflection

Lets compare this animal with a real one. How are they similar, how are they different? How do you take care of him? Is it fun for you to play with? Does he cheer you up when you're sad? Is he a good friend? Why? A puppy or a kitten can be my best friend. Can a Tamagotchi be my best friend?

# Pedagogical professionals

Morality and ethics

Rise to the challenge of talking about morality and ethics with the children.

Possible tendency to anthropomorphize robots

Understand that children anthropomorphise robots and therefore also assume that they act morally.

Robots and AI-based device operations

Can question moral and ethical principles in relation to the action of robots or AI-based devices.

## Goals

Level   Exercise



# I'm not a Robot

## Tips for in-depths study

### Links

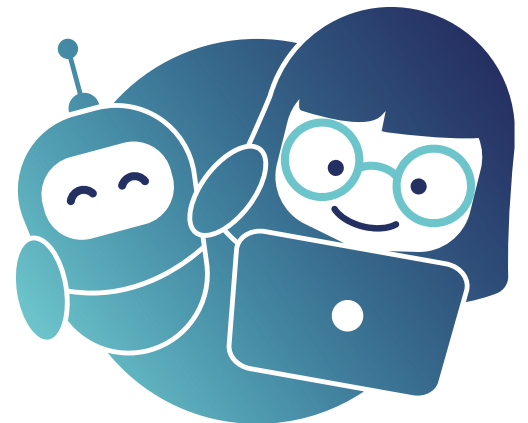
5 Best Personal Robots You Can Buy In 2023  
<https://youtu.be/eTQVZq9UTng>



Tower Of Power | Preschool Learning Videos | Rob The Robot  
<https://youtu.be/xHoblej1BGw>



Shelly, a Robot Capable of Restraining Children's Robot Abuse  
<https://youtu.be/37jOzSOsK3c>



## Imprint

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# Toolbox #9 Can a robot be my friend?



Source Unsplash.com | Andy Kelly

The development of technologies now allows us to talk about social interaction and communication between humans and robots in roles such as friends, companions and tutors (Neumann, 2020). The concept of social robots has emerged in the last decades.

It is important to note that social robots can help people in various areas of social and everyday life, including but not limited to entertainment, leisure, personal services, cleaning, security and elderly care. Robots are also used in education, especially for learning languages, providing learning experiences and supporting learning in certain subjects such as biology, chemistry or mathematics, but the attitude of teachers and parents towards robotics in early childhood is more negative than positive.

### What we know

## Introduction

### What is this about?

Fundamental questions about the morality and ethics of technologies, robots and AI are addressed in this toolbox. Connections are drawn between the development of human character and human virtues with the use of and interaction with robots. Contrasts between human-human interaction and human-robot interaction will be used to highlight parallels and differences. The activities proposed in the toolbox also contribute to the development of children's social and emotional competences. Moral action and friendship are at the centre of this.

In terms of content, there are references to Toolbox 8: Does a robot have feelings? in which the question of humanising robots is also addressed, and Toolbox 2: Who knows a robot? in which it is clarified that robots are constructed and controlled by humans.

### Children's point of view

- In which situations and situations in life can a robot be a friend?
- In which situations could a robot replace a human being?
- And in which situations could it not?

#### Questions from Children

- What does the word „friend“ mean?
- What is friendship?
- How can robots help us to develop ourselves?

How is a robot similar to an animal? What is the difference between? What feelings does a robot have? What feelings does an animal have? What can the robot do/do? What can the animal do/act? What motivates the robot friend to move, act? What motivates you to move, act to befriend/unfriend an animal?

#### Reflection

After playing the Tamagotchi game, let's compare an animal friend with a Tamagotchi friend. Draw 2 diagrams on the floor. In the middle of one scheme put the image of a Tamagotchi robot, in the other an animal. Take the cards with different robots and animals pictures. Put in the scheme which cards match the robot and which match the real animal. Speak with children about emotions, with are related to robots and with are related to animals.

#### Implementation

Play Tamagotchi game. After playing take animals and robots cards and discuss about differences between animals and robots and possible emotions. You are also free to use other similar games.

#### Preparation

- Tablet + Tamagotchi game** (or similar games Axolochi, Pet Dog, Huggy)
- Chalk**
- Image Cards**
- Scheme**
- Tape or large piece of paper**

#### Materials

## Comparison between robot friend and animal friend (1)

### Exercise

Level



### Exercise

Level

## Comparison between robot friend and animal friend (1)

#### Materials

- Tablet + Tamagotchi game** (or similar games Axolochi, Pet Dog, Huggy)
- Chalk**
- Tape or large piece of paper**
- Scheme**
- Image Cards**

#### Preparation

Play Tamagotchi game at a higher level. After playing take animals and robots cards and discuss about friendliness and emotions characteristic of friendship. You are also free to use other similar games.

#### Implementation

Draw a diagram of similarities and differences on the floor (draw with chalk, use tape or a large piece of paper). Into the middle circles put Tamagotchi robot and animal.

Take the cards with animals, robots and animals robots. Arrange which cards match the robot, the animal, and which match both. Let's discuss about friendships with a Tamagotchi robot and an animal or animal robot which friend would children prefer and which could be the best friend. Talk about what characteristics are characteristic of a robot friend and which characteristics of an animal friend.

#### Reflection

Can a robot be a friend? What is characteristic/uncharacteristic of a robot as a friend on a computer screen? What is characteristic/uncharacteristic of an animal as a friend? what is typical/uncharacteristic of a robot animal?

# Instruction

Print front and back on one sheet. (Turned over long side)

Fold

