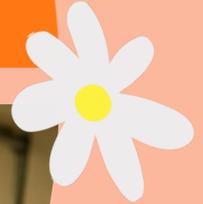


Where Curiosity Grows



Robot Friends

recommended grades:

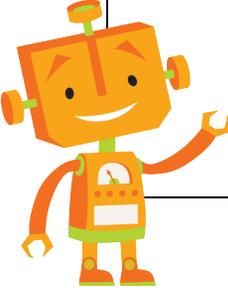
Pre-k-2



Kindergarten Day Kits: Robot Friends

Girls are little scientists and they are eager to observe and make discoveries about their worlds. An important part of kindergarten is learning how to use their senses to observe the world, discover how things work and use their new knowledge to solve problems. Girls will use their STEM brain to learn about what it means to robot!

ROBOT FRIENDS		OUTCOME: LANGUAGE, COMMUNICATION, MATH, SCIENCE, AND MOTOR DEVELOPMENT
OBJECTIVE: This session has been inspired by the Girl Scout Daisy Robotics badges . Girls will: <ul style="list-style-type: none"> • Identify a robot. • Learn about robots and how they work. • Practice following instructions. • Move like a robot. 		
Activity Plan Length 45 minutes		
TIME	ACTIVITY	MATERIALS NEEDED
5 minutes	Opening Activity - Promise	None
10 minutes	Introduction Activity – Which is a Robot	Robot or Not Printout
15 minutes	Main Activity – Learn about Robots	Printed Share Cards
10 minutes	Follow up Activity: Copy Dancing	None
5 minutes	Wrap-up – Sing Make New Friends	None

1. Opening Activity: INTRODUCTION	Time: 5 minutes
Materials Needed: None	
WELCOME GIRLS	
Greet each girl.	
Introduce yourself and your council.	
Explain that you’ll be helping them get ready for Kindergarten.	
Explain what girls will be doing and how long the session will be.	
Ask if girls have any questions.	
GIRL SCOUT PROMISE	
Explain that a promise is when you agree to do something. Girl Scouts start every meeting by saying the Girl Scout Promise.	
 <p>Girl Scout Promise On my honor, I will try: to serve God and my Country, to help people at all times, and to live by the Girl Scout Law</p>	<p>La Promesa Por mi honor yo trataré de servir a Dios y a mi patria, Ayudar a las personas en todo momento Y a vivir conforme a la ley de las Girl Scouts</p>



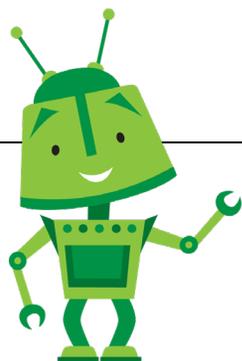
2. Introduction: Robot or Not?	Time: 10 minutes
Materials Needed: Robot or Not Printout	
Purpose: Identify a robot	
<p>WHAT TO DO: Use the Robot or Not Printout or Find and print out 10 images, 5 robots (Mars Rover, Roomba, etc.,) and 5 non robots (Dog, Crossing Guard, etc.,) Hold up each picture and ask girls to raise their hands if it is a picture of a robot. Call on one girl at a time to identify what they see in the pictures.</p> <p>Here is a sample script for this game: Volunteer: This is one kind of robot! [Show picture]. Now I'm going to show you some more pictures. Some are robots and some are not! As I show you the pictures, raise your hand if you think it is a robot. [Continue with each picture and the leader selecting girls to identify what it is.] Finish by saying: "Great job girls! Next we will learn more about robots"</p>	

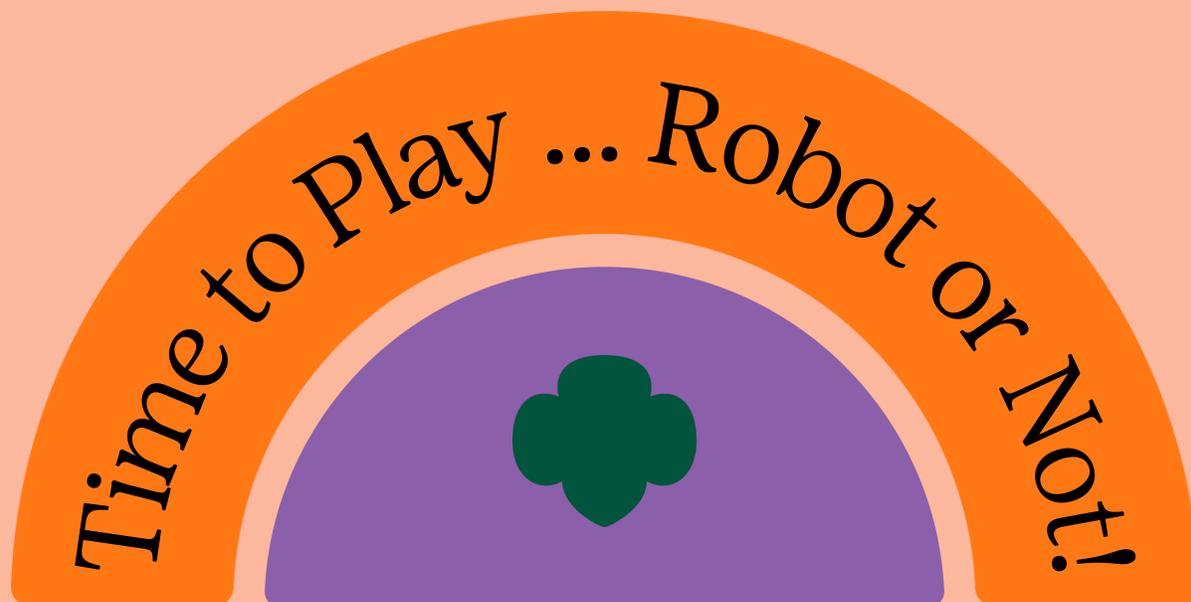
3. Main Activity: Learn about robots	Time: 15 minutes
Materials Needed: Printed Share Cards	
Purpose: Practice following instructions by learning the Girl Scout Sign	
<p>WHAT TO DO: Consider saying: "Learning about robots is what Girl Scout Daisies do when earning their Robotics badges." [Show the three Daisy Robotics badges, if possible]. Discuss: "A robot knows how to follow instructions automatically, without a person telling it what to do. Computer programmers are the people who create those special instructions for robots - which are called <i>programs</i>."</p> <p>Share words to know: <i>Programmer</i> - tells robots what to do. <i>Code</i> - language the robot understands. <i>Algorithm</i> - step by step instructions.</p> <p>Explain that you will now play the Programmer Says Game: Girls will pretend to be the robot and volunteer will be the programmer and the task we will do today is the Girl Scout Sign. Be aware that some girls may have different movement abilities and adapt this activity as needed.</p> <p>Here are some sample tasks for this game:</p> <ul style="list-style-type: none"> • Open your hand and face your palm forward. • Bring the tips of your pinky finger and your thumb together. • Smile! <p>REFLECT Guide a short conversation about robots. Consider questions such as:</p> <ul style="list-style-type: none"> • What role would you like to be; the robot or the programmer? • If you had a robot to play with what would you program it to do? 	



4. Follow-up: Dancing - Robot Style	Time: 10 minutes
Materials Needed: None	
Purpose: Get active and move around and learn to follow instructions	
WHAT TO DO:	
Challenge girls to think of some dance moves that can be performed either sitting or standing.	
Ask a girl to be the programmer and share their dance moves while others are the robots and copy their moves. If time allows choose another girl to be the programmer and the others follow.	

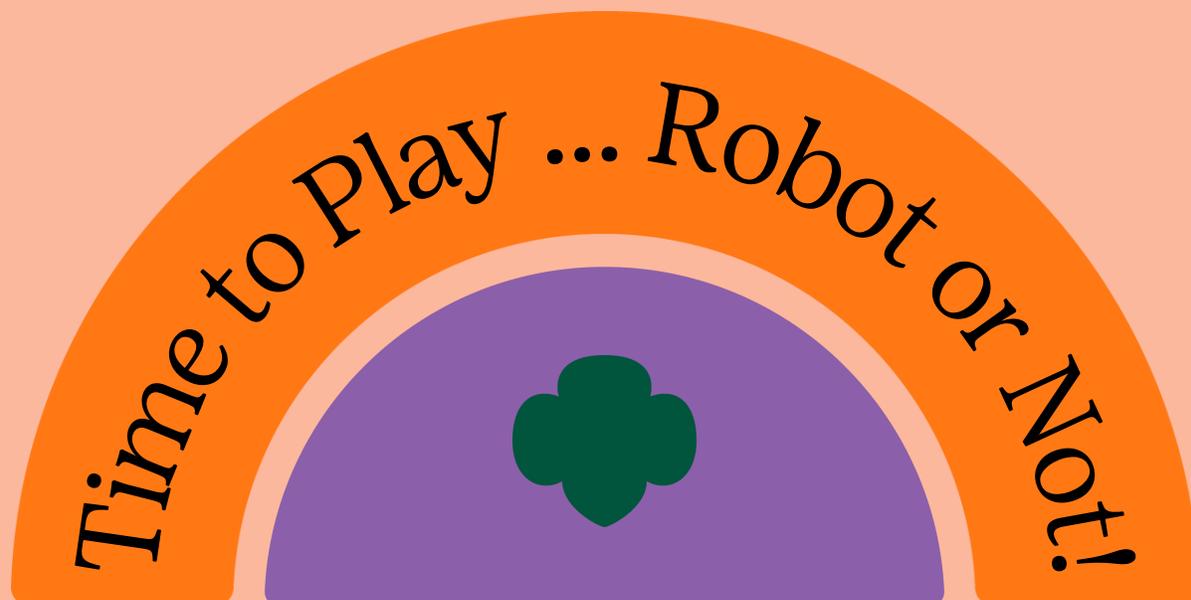
5. Wrap-up: Make New Friends Song	Time: 5 minutes
Materials Needed: None	
Purpose: Thank girls and wrap up the meeting	
REFLECT	
Thank girls and caregivers for attending today. Remind them of the things they learned including:	
<ul style="list-style-type: none"> • Identifying robots (show pictures to reinforce that a roomba is a robot but a dog is not.) • Following step by step instructions and learned the Girl Scout sign • Being great dancers! • Girl Scouts have meetings just like the one we had today where we learn, play and try new things with our friends. 	
CLOSING CEREMONY	
Explain that every Girl Scout meeting ends in a special way, by singing <i>Make New Friends</i> .	
Teach the girls Make New Friends using the “repeat after me” learning technique for each line.	
Sing it once as repeat after me and then all together.	
<p>Make new friends, but keep the old. One is silver, and the other's gold. A circle's round, it has no end. That's how long I want to be your friend!</p>	





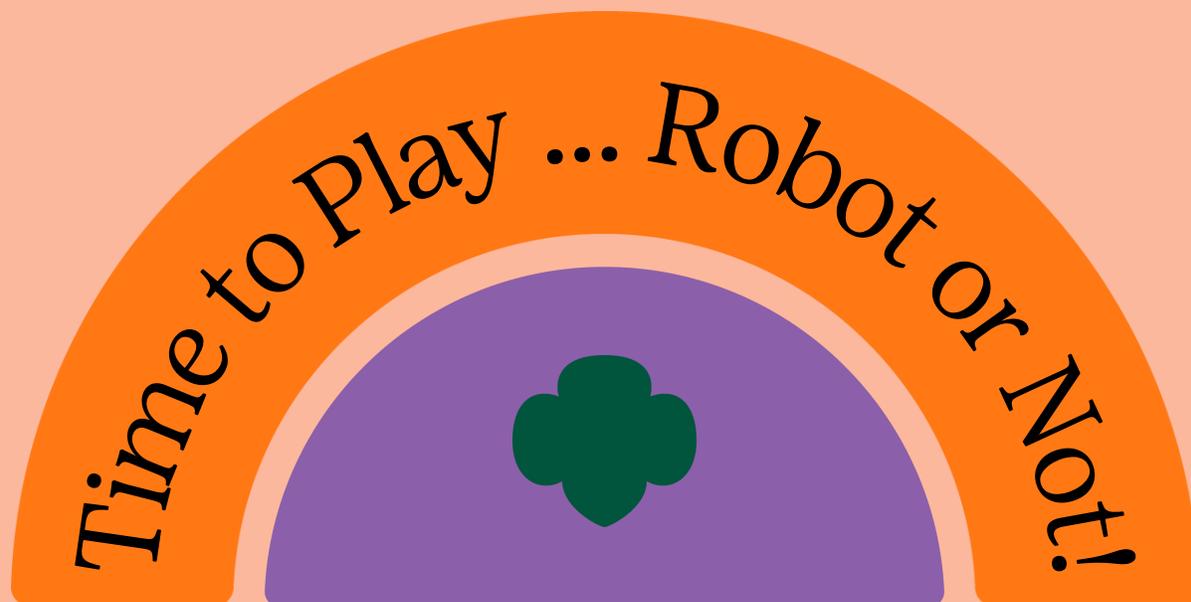
Is this a robot?





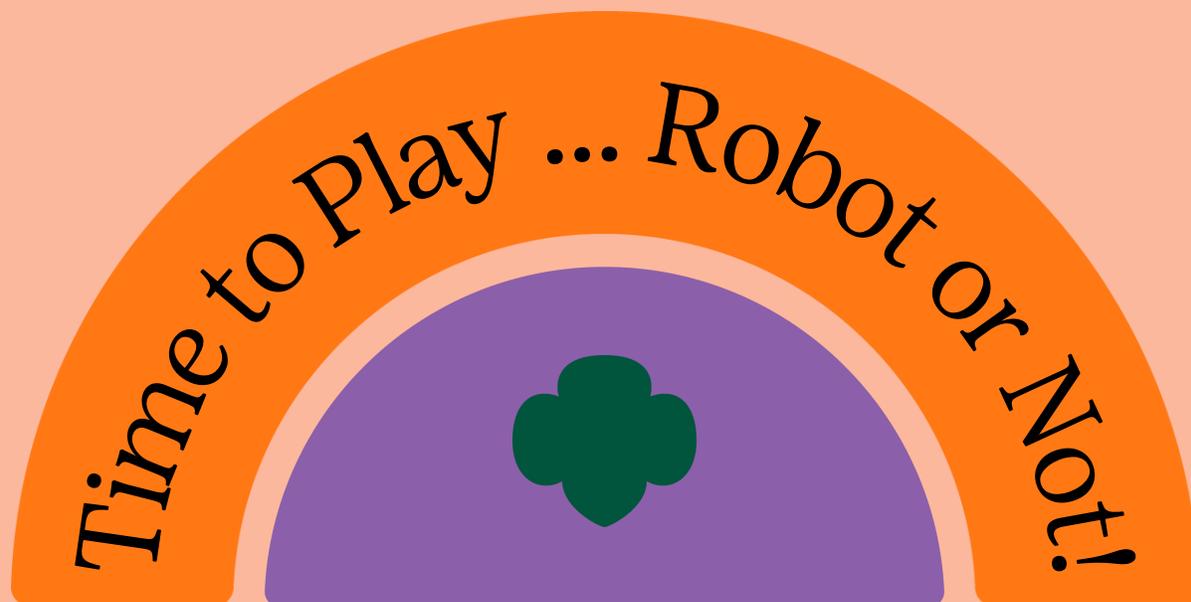
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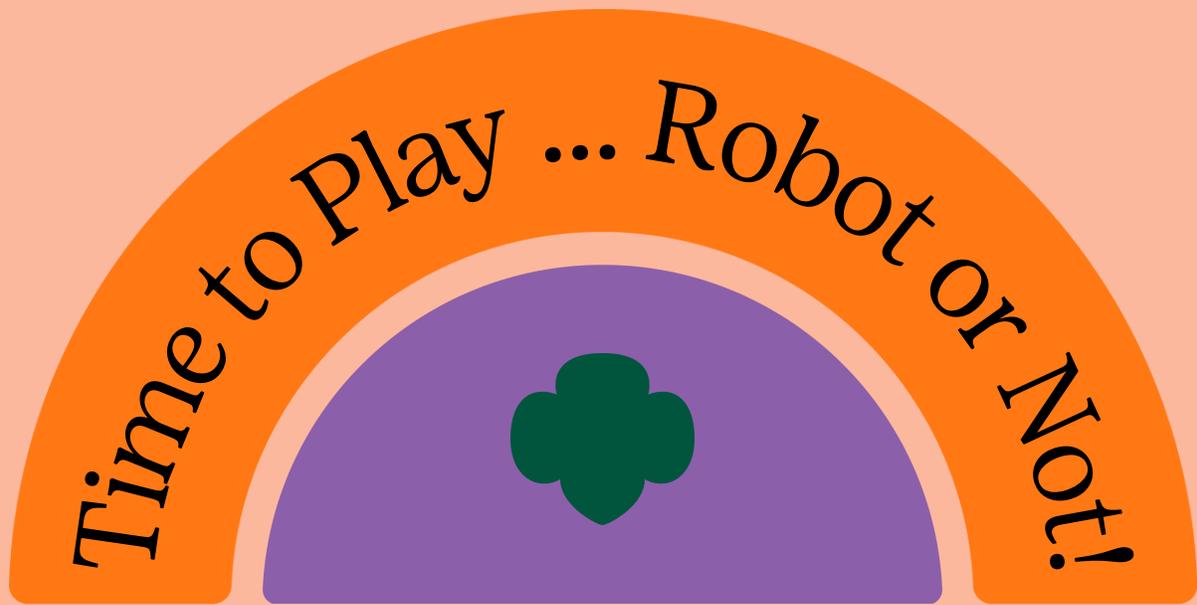
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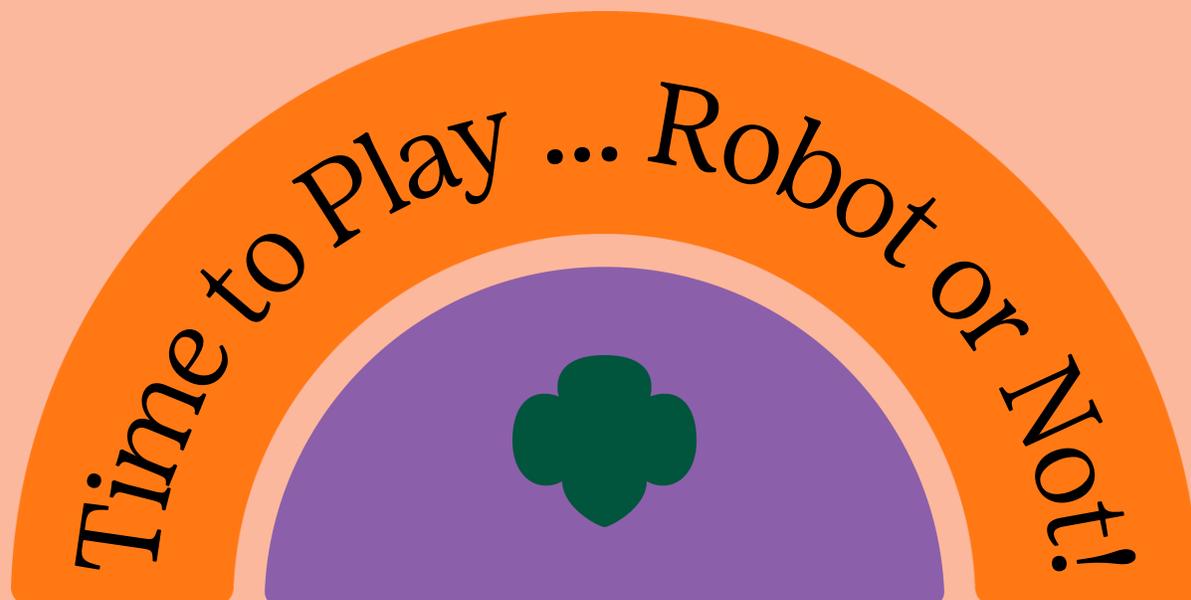
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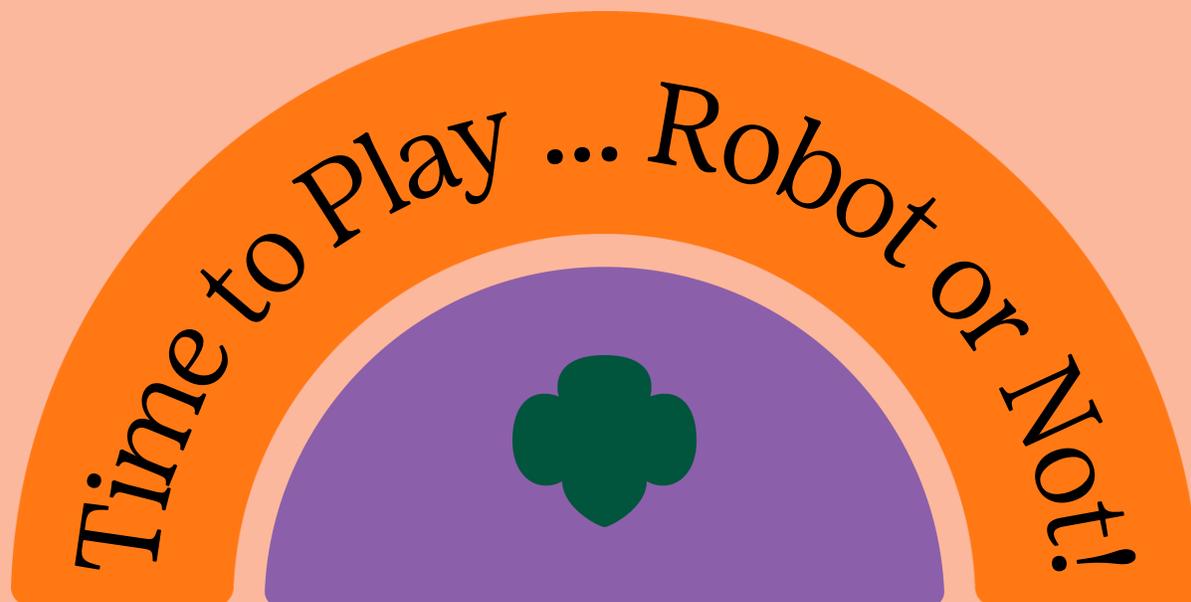
Is this a robot?





Is this a robot?



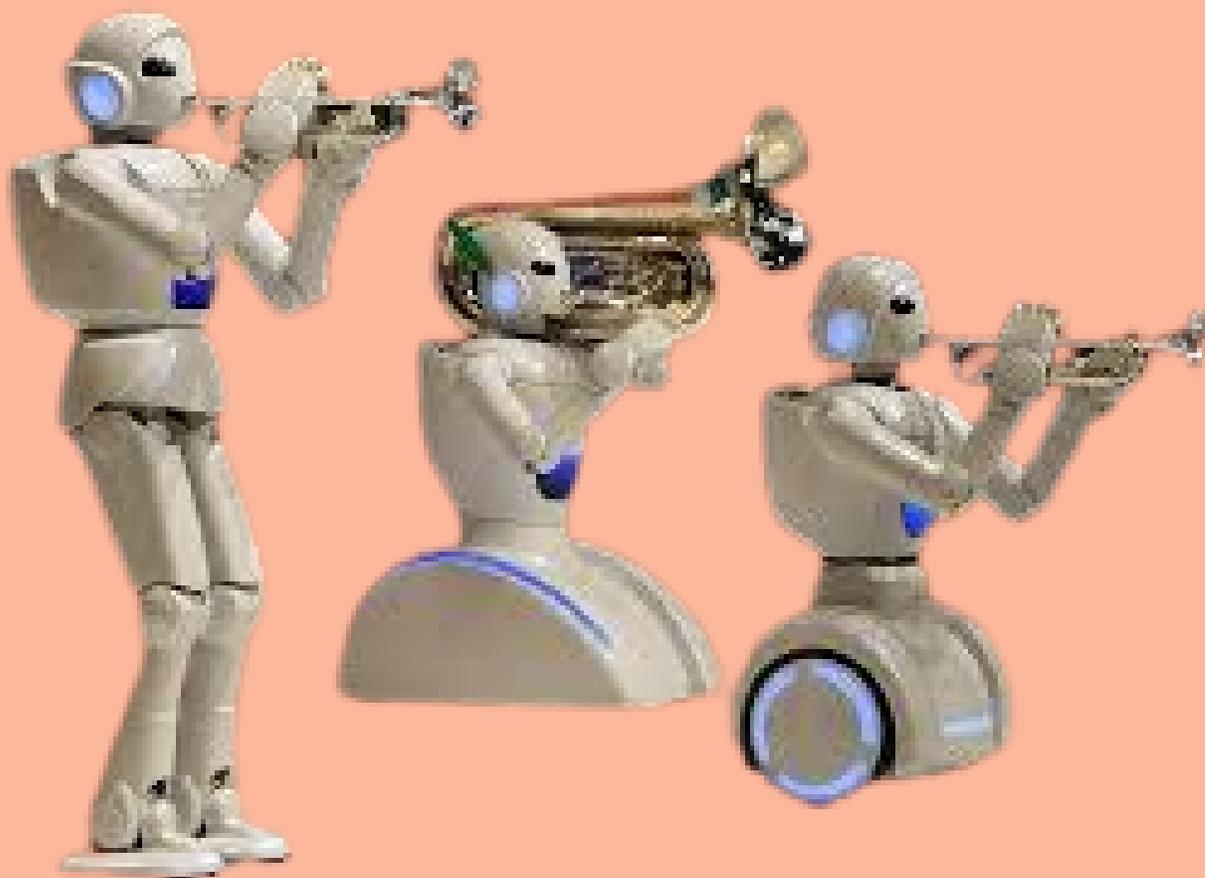


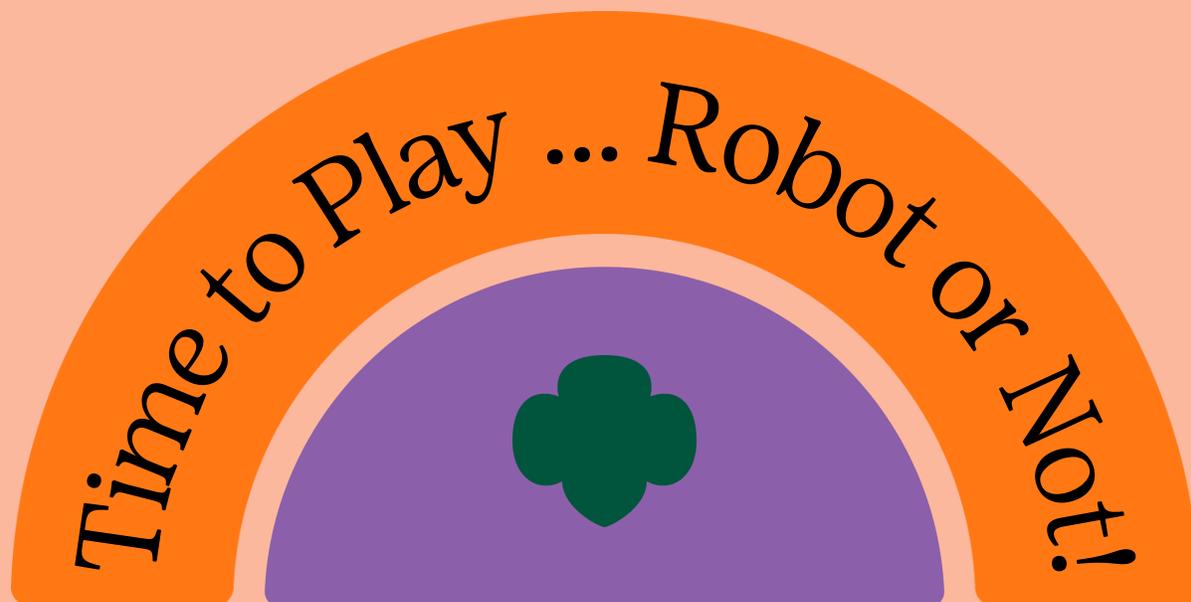
Are these robots?



Time to Play ... Robot or Not!

Are these robots?



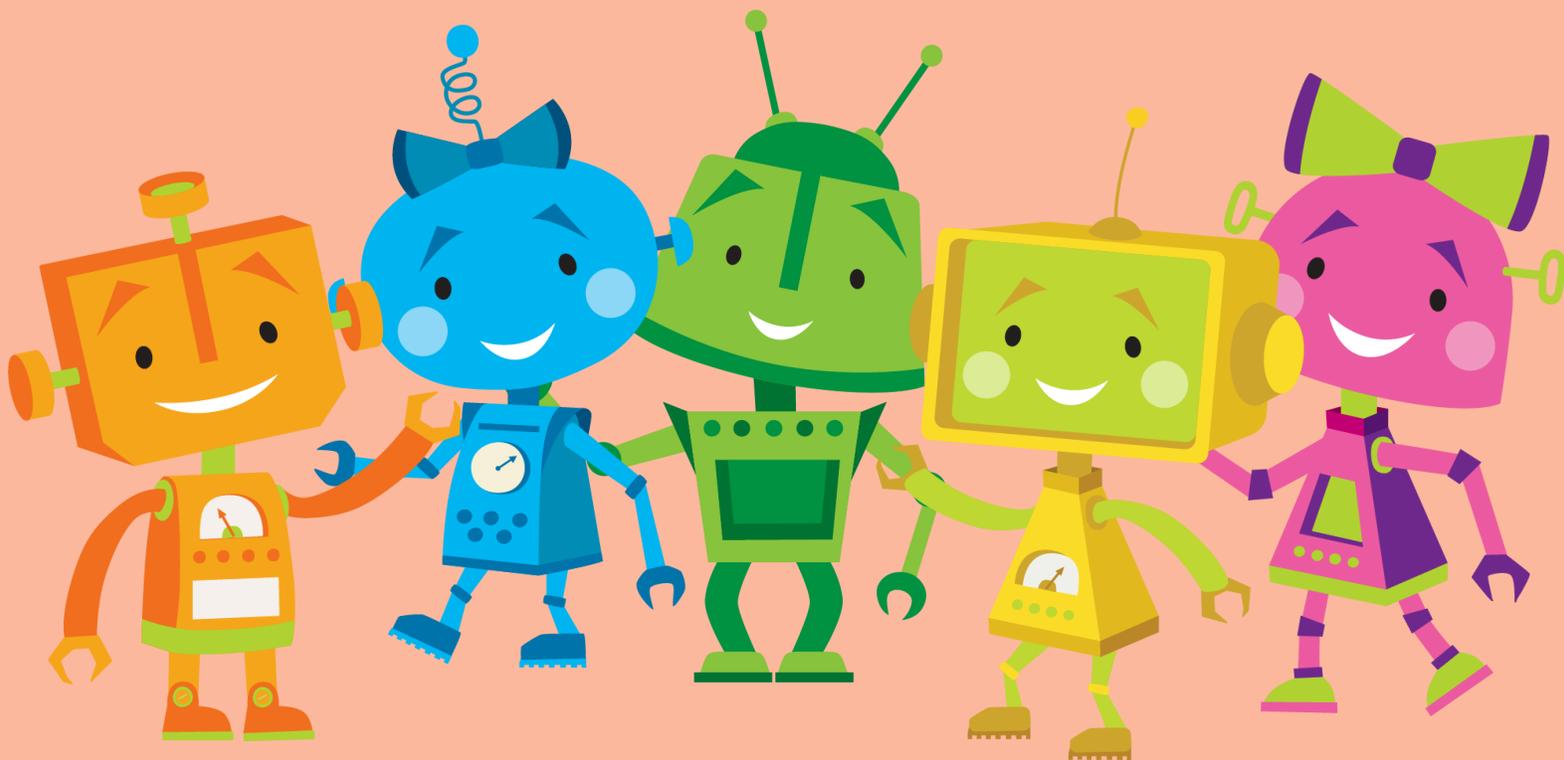


Is this a robot?



Time to Play ... Robot or Not!

Are these robots?



Daisy Robotics Badges

