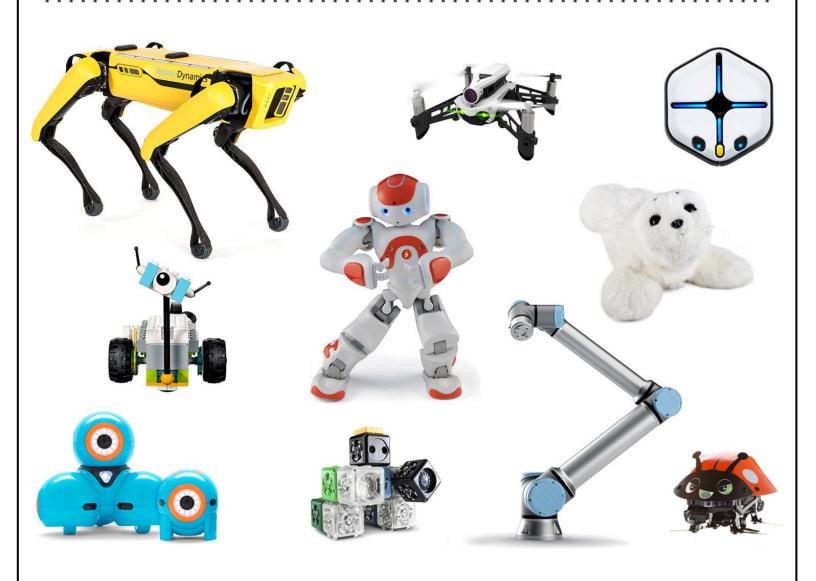
# EXPLORE THE WORLD OF ROBOTS

Complete these activities using the ROBOTS GUIDE ⇒ <a href="robotsguide.com">robotsguide.com</a> Enjoy!



NAME:

# MY FAVORITE ROBOT

Go to the ROBOTS GUIDE ⇒ robotsquide.com and click on some of the robots you find interesting! Which is your favorite?

Ø	Draw	your	favorite	robot:	

## SPOTTHE DIFFERENCES

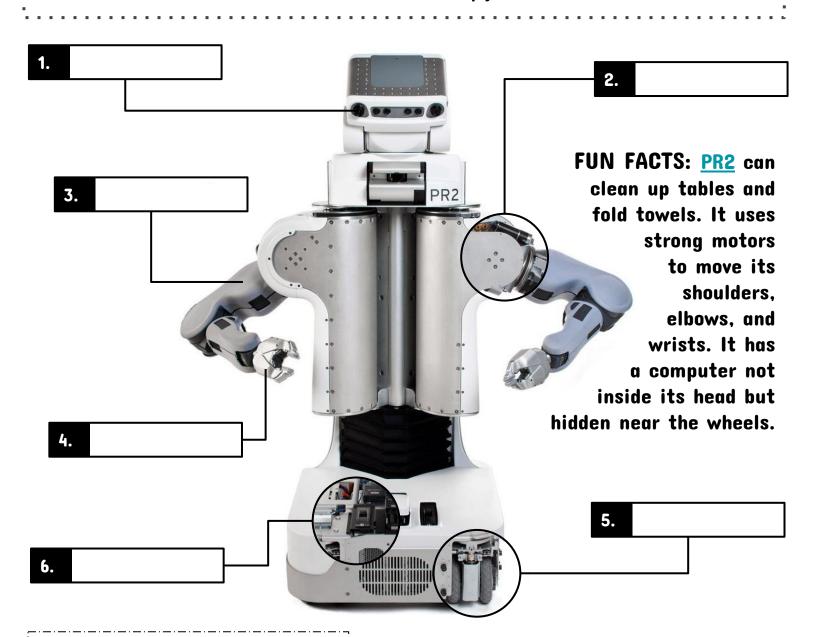
Circle the 6 things that are different between these two pictures.



FUN FACTS: <u>Wakamaru</u> is a friendly helper robot that can talk to people, recognize faces, and shake hands.

## ROBOT PARTS

Use the list of **ROBOT PARTS** to help you label this robot.



#### **ROBOT PARTS:**

COMPUTER CAMERA

MOTOR WHEELS

ARM

**GRIPPER** 

ANSWER: 1. CAMERA; 2. MOTOR; 3. ARM; 4. GRIPPER; 5. WHEELS; 6. COMPUTER

# ROBOT JOKES

Enjoy this collection of robot jokes. Share them with your friends!

WHAT IS A ROBOT'S FAVORITE KIND OF MUSIC?
HEAVY METAL!

obstress min

WHAT DO YOU CALL
A PIRATE DROID?

ARRR-2-D2



BEEP

FUN FACTS: <u>RoboThespian</u> is a robotic actor that tells jokes during its performances.

WHAT IS A ROBOT'S FAVORITE SNACK?
MICRO-CHIPS!

WHAT IS A ROBOT'S FAVORITE DANCE MOVE?
THE ROBOT!

WHY DID THE ROBOT
GO ON A BOAT?
BECAUSE IT'S A
ROW-BOAT!

# ROBOT DOBS

Draw a line to connect each of these robots to the task you think it can do.



<u>UR</u>



Roomba •



Aquanaut •



**Phantom** 



<u>Colossus</u>

- Take a picture from the sky
- Move boxes in a factory
- Help firefighters put out a fire
- Swim underwater
- Clean dustfrom the floor

**OPTIONAL (ADVANCED)**: Explain why you think robots are important.

## ROBOT FACE-OFF

Look at the two robots below and circle the one that you want to have.



Aibo Nao

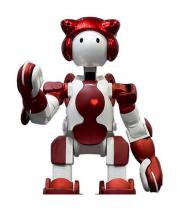
#### **Explain your choice:**

<u>OPTIONAL (ADVANCED):</u> Go to the ROBOTS GUIDE ⇒ <u>robotsguide.com</u> and play the <u>Robot Face-off</u> game. Which *Star Wars* robot do most people say is cooler: R2-D2 or C-3P0?

## WHO'S WHO?

Look at the photos and the list of ROBOT NAMES and try to match them.

TIP: If you don't know some of these robots, you can search their names on the ROBOTS GUIDE > robotsguide.com









1. \_\_\_\_\_

2. \_\_\_\_\_

**3.** \_\_\_\_\_

4. \_\_\_\_\_









**5.** \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

#### **ROBOT NAMES:**

<u>Curiosity</u> Titan

Root

**QTrobot** 

Dash & Dot

**Emiew** 

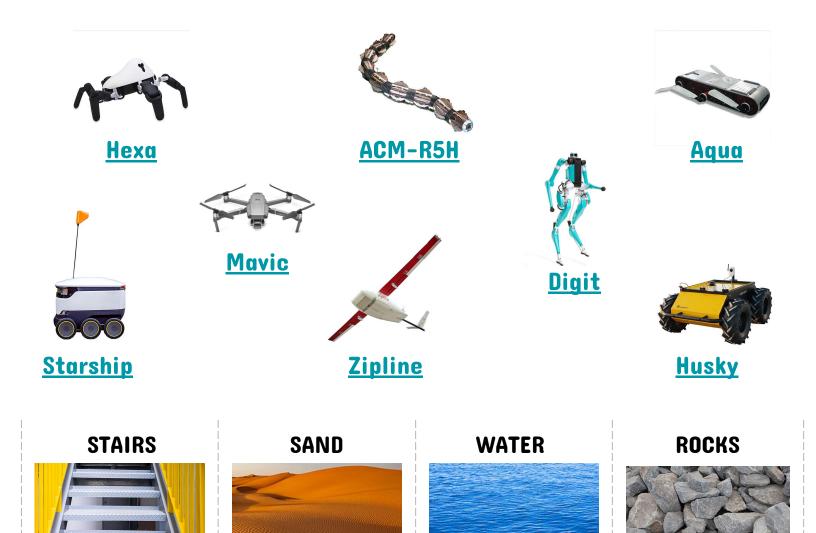
**Paro** 

Robobee

ANSWER: 1.Emiew; 2. Paro; 3. Curiosity; 4. Titan; 5. Dash & Dot; 6. Robobee; 7. QTrobot; 8. Root

## OWROBOTS MOV

Some robots have wheels, some have legs. Some can fly, some can swim. For each of the places below, write the name of one robot you think could go there.



<u>OPTIONAL (ADVANCED):</u> Go to the ROBOTS GUIDE ⇒ <u>robotsguide.com</u> and find the smallest robot. How does it move?

# ROBOT WORD SEARCH

Can you find the words and the robot names below?

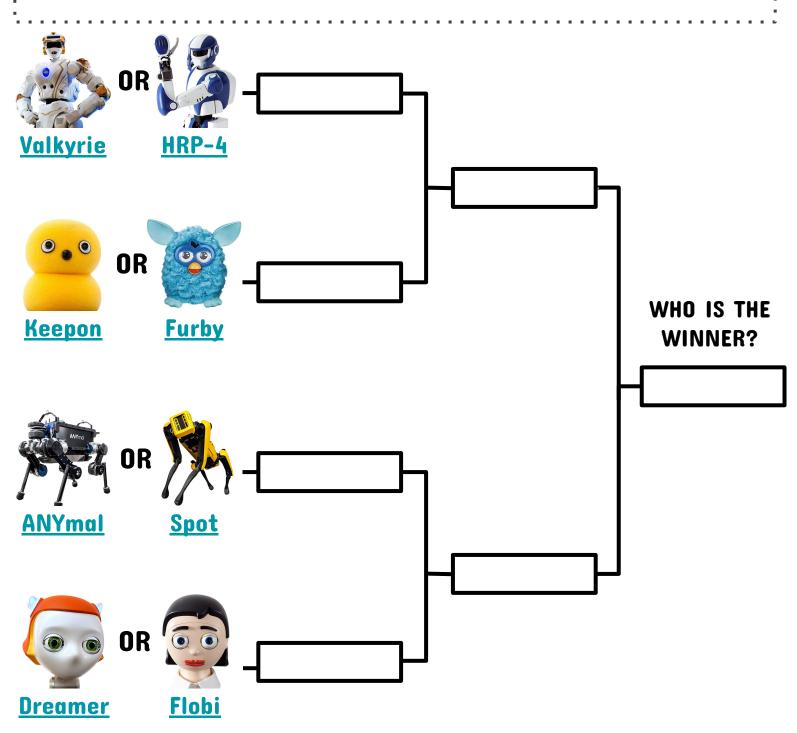
M	0	T	0	R	Z	K	D	I	E	S	K	K	Т
M	P	U	Т	E	R	J	F	Y	G	Н	R	A	N
X	Н	S	В	G	0	V	L	D	M	X	J	M	F
J	E	I	W	P	A	L	C	J	G	K	W	I	C
Н	E	K	W	S	E	N	S	0	R	M	C	G	F
U	E	Η	S	D	U	V	J	K	G	K	E	A	X
C	C	J	F	Н	E	K	W	G	S	K	M	M	${f T}$
0	R	C	I	U	F	E	U	R	Y	W	Y	I	A
M	G	C	K	C	L	S	M	I	S	T	Y	E	U
P	J	S	Н	X	N	Z	K	P	A	K	Q	L	D
U	R	C	C	K	X	M	S	P	S	D	U	S	L
T	0	W	C	U	В	E	L	E	T	S	D	A	S
E	I	D	F	A	M	0	D	R	I	V	I	W	P
R	E	E	P	0	I	L	M	S	L	C	L	S	0
T	P	J	S	S	K	L	D	F	J	A	K	L	S
F	X	0	L	M	I	R	P	Q	C	M	G	E	J

**✓ SENSOR**  $\neg$  MOTOR **COMPUTER GRIPPER CUBELETS MISTY** 

<u>OPTIONAL (ADVANCED):</u> Go to the ROBOTS GUIDE ⇒ <u>robotsguide.com</u> and pick 4 robots that you like. Then use a blank sheet of paper to create your own robot word search!

## ROBOT SHOWDOWN

For each pair of robots, pick the one you think is **cooler**. Keep going until there's one robot left.



OPTIONAL (ADVANCED): Go to the ROBOTS GUIDE → robotsguide.com and pick 8 robots that you like and repeat this activity.

### **ROBOTS THAT LOOK LIKE US**

The robots below are examples of **humanoid robots**. They have parts (like arms and legs) that are similar to ours. Use the Venn diagram to show how they compare to us humans.













**Atlas** 

**Armar** 

iCub

Robonaut

Nao

**Erica** 

#### **HUMANS**

What are things that **only humans** have or can do?

#### **BOTH**

What are things that both humans and humanoid robots have or can do?

#### **HUMANOIDS**

What are things that only humanoid robots have or can do?

<u>OPTIONAL (ADVANCED):</u> Explain why you think engineers build robots that look like us.

## CREATE YOUR OWN ROBOT

Now that you've seen what real robots can do and what they look like, use your imagination to create your own!

	Draw	your	robot	design:		
<b>1</b> y	robo	t's <b>n</b> o	<b>me</b> is	<b>3:</b>		
Vr	ite 3	thing	s that	your r	obot ca	n do:
1				•		
2						
S						
C						
	<u>optio</u>	NAL (ADVAN	<u>CED):</u> Show ir	n your drawing v	vhat <b>sensors</b> yo	ur robot has.



# ASK A QUESTION!

Below are questions we've received from students from around the world. Write your question and your name, then ask an adult to send a photo of this page to <a href="mailto:hellorobots@ieee.org">hellorobots@ieee.org</a> and a robotics engineer may answer it on the ROBOTS GUIDE > <a href="mailto:robotsguide.com">robotsguide.com</a>

What was the most difficult robot to build?

—Chloe

Do robots think before they do an action?
—Anders

What type of robot has *not* been created yet?

—Nuraz

Why do people make robots look like humans?
—Sonia

Your question:

YOUR NAME