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SPACE EXPLORERS™
Hands on Astronomy & Space Sciences Workshops

Educational Resource

HYDROBOT

Moving fluids have so much power that they can be used to lift heavy cars, apply brakes in vehicles, steer motorboats and even help in movement of the Canadarm in the International Space Station! Students construct a “Hydrobot” – a device that is powered by water and can do tasks without much human intervention. This inspires them to believe that real world problems can be solved with simple science principles.

CHALLENGE YOURSELF

WORD SEARCH

T	P	L	K	S	Y	J	E	N	A	R	C	U	M	T
O	E	A	C	P	C	Y	T	I	S	O	I	R	U	C
R	R	C	A	A	N	E	X	C	A	V	A	T	O	R
O	A	S	J	C	B	S	E	K	A	R	B	C	N	N
B	C	A	R	E	D	J	U	R	E	P	M	U	D	E
O	H	P	A	S	C	I	T	A	M	U	E	N	P	D
T	O	I	C	H	E	C	R	O	F	E	T	N	E	F
I	R	S	W	U	Y	A	V	F	L	U	I	D	O	B
C	A	T	A	T	C	C	A	N	A	D	A	R	M	P
A	C	O	T	T	H	Y	D	R	A	U	L	I	C	S
R	P	N	E	L	N	R	J	J	X	U	B	I	W	B
M	Z	D	R	E	R	U	S	S	E	R	P	K	K	U

1. This space vehicle used hydraulics to detach its solid rocket boosters.
2. A robotic arm on the International Space Station (ISS).
3. The scientist who gave a famous law of hydraulics.
4. A substance that can flow.
5. A machine used to dig holes in the ground.
6. Fluids apply _____ on the container.
7. A machine used to lift heavy objects.
8. A part of hydraulic machine which is used to apply pressure on fluid.
9. The study of pressurized gases.
10. Strength or power exerted on an object.
11. Modern cars use hydraulic _____ to stop.
12. A mechanical device similar to a human arm.
13. A machine used to dump garbage.
14. Name of the rover on Mars having a robotic arm.
15. First fluid used in hydraulics.
16. A hydraulic machine used to lift cars.
17. Name of an ancient hydraulic wheel in Europe.
18. The study of fluids.

1. Space Shuttle
2. Canadarm
3. Pascal
4. Fluid
5. Excavators
6. Pressure
7. Crane
8. Piston
9. Pneumatics
10. Force
11. Brakes
12. Robot
13. Dumper
14. Curiosity
15. Water
16. Car jack
17. Perachora
18. Hydraulics