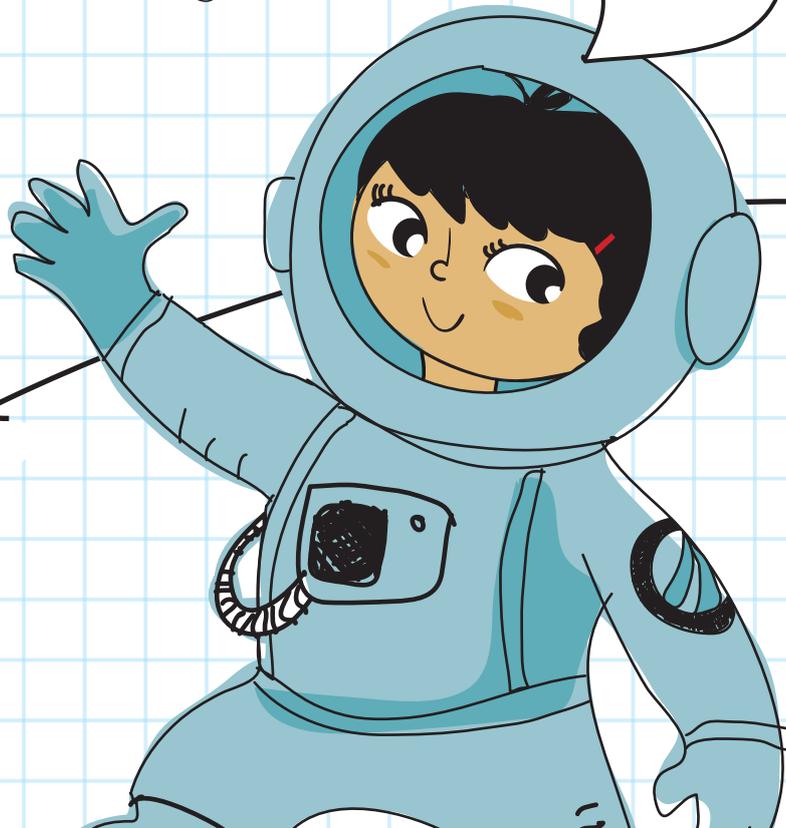
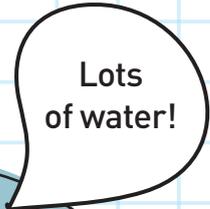
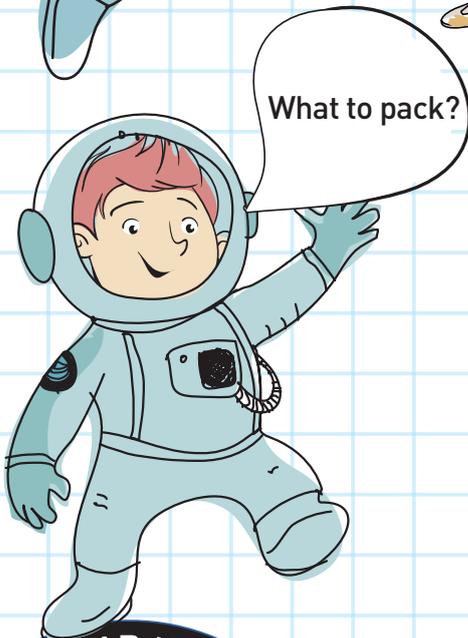
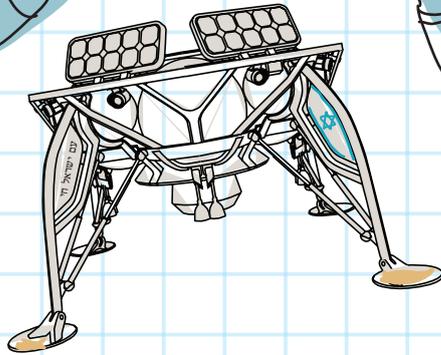
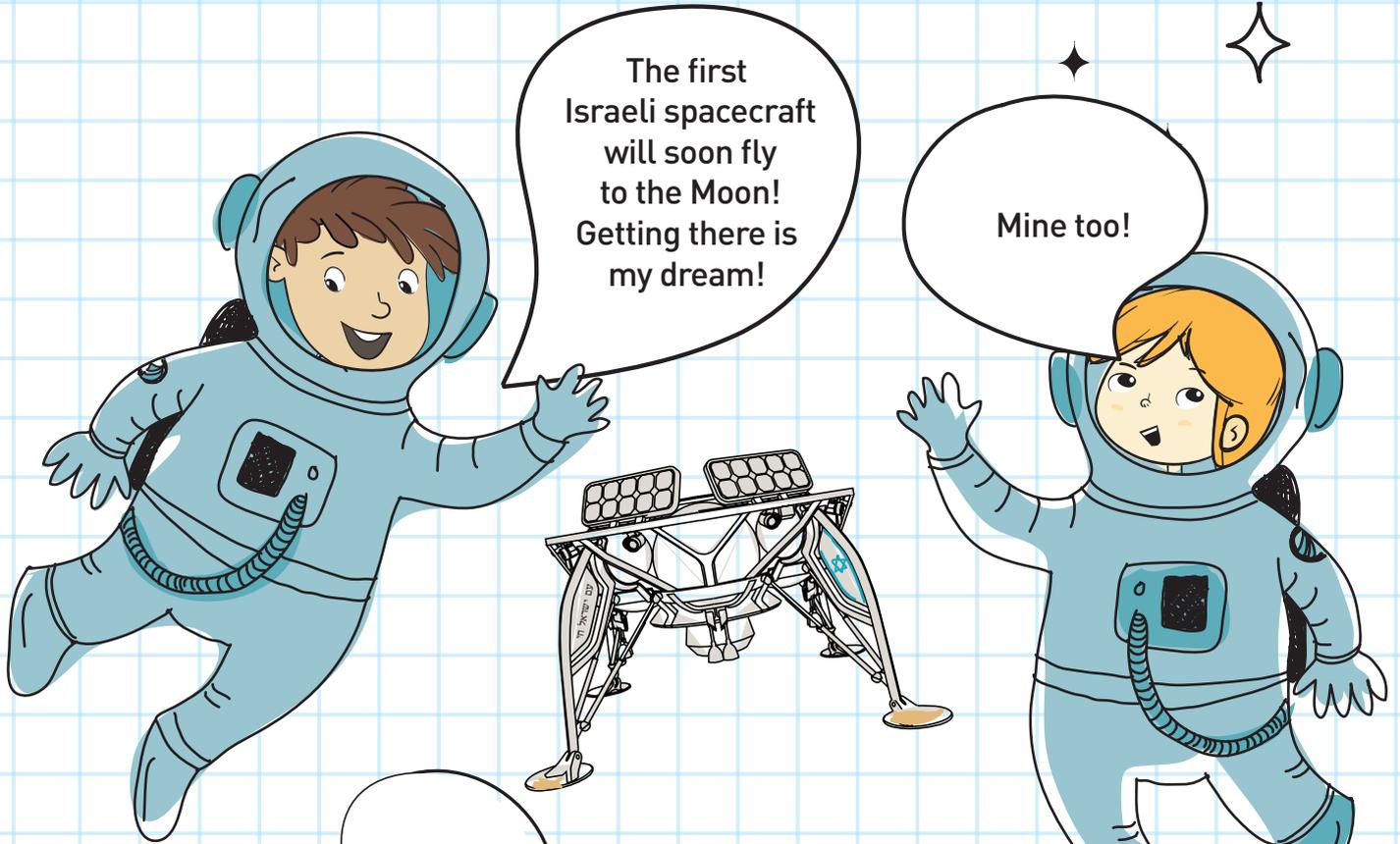


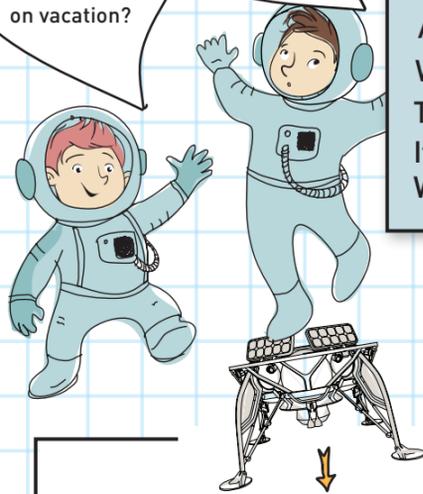
WHO WANTS TO GO TO THE MOON?

SpaceIL Kids Magazine | Issue no.1



When I'll be older, do you think that we will be able to fly to the Moon on vacation?

There will probably be an all-inclusive tour package to Mars by then.



ID CARD

Name: _____

Age: _____

Address: _____

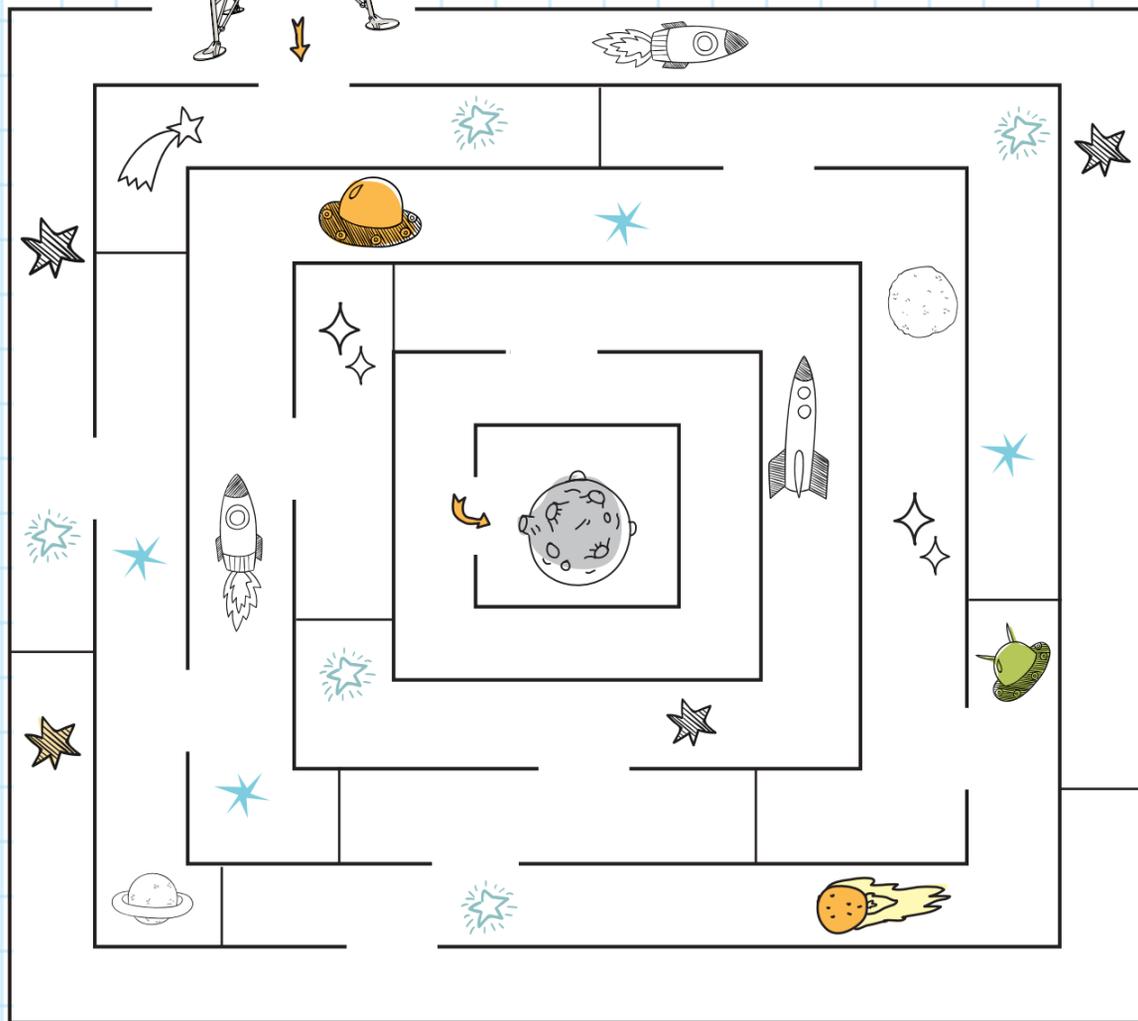
When I grow up I want to be _____

The invention I want to invent is _____

If I get to the Moon, I will bring home _____ from there.

When I fly to the Moon, I will take _____ with me.

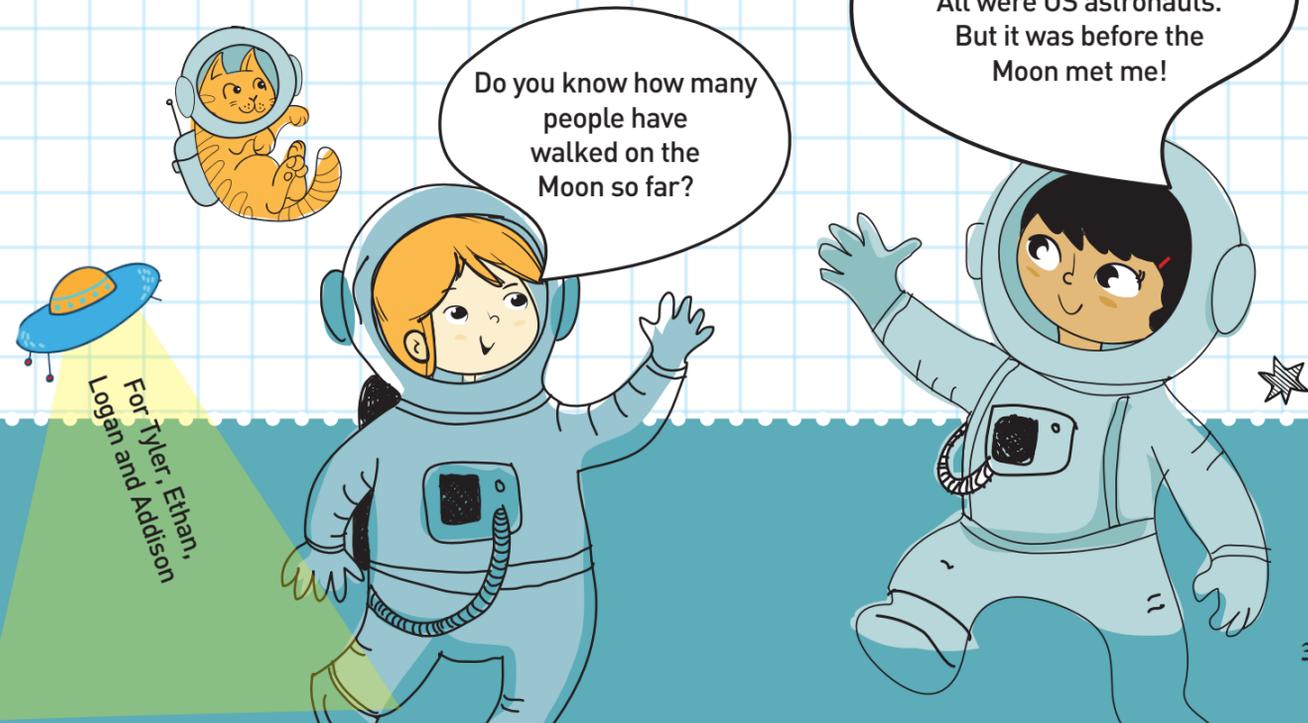
**I'm on my way to the Moon!
What will I collect on the way?**



The number of items I collected: _____

WHAT DO WE KNOW ABOUT THE MOON?

- How many countries have landed a spacecraft on the Moon?**
 - Two countries: the former Soviet Union and the United States.
 - Three countries: the former Soviet Union, the United States and China.
 - Four countries: the former Soviet Union, the United States, France and China.
- According to the story of creation, on what day was the Moon created?**
 - On the first day
 - On the fourth day
 - On the sixth day
- What is the name of the Moon goddess in Greek mythology?**
 - Artemis
 - Selene
 - Both
- What other names does the Moon have?**
 - Luna
 - Crescent
 - All the answers are correct
- How far away is the Moon from the Earth?**
 - 238,855 miles
 - 92,585 miles
 - 365,370 miles
- What is the Moon surface made of?**
 - Ice
 - Rock
 - Water
- What is the temperature on the light side of the Moon?**
 - About 10°F
 - About 212°F
 - About 273°F
- What is the temperature on the dark side of the Moon?**
 - About -243°F
 - About -22°F
 - About -51°F
- What fraction of Earth's gravity is the Moon's gravity?**
 - 1/6
 - 1/3
 - 1/2
- Is there an atmosphere on the Moon?**
 - Yes
 - No
 - Unknown



Do you know how many people have walked on the Moon so far?

A total of 12 men have walked on the Moon so far. All were US astronauts. But it was before the Moon met me!



Ilan Ramon – the first Israeli astronaut
 Ilan was an outstanding pilot and was chosen for NASA's astronaut training program. For many years he was preparing for a space flight, which for him was the realization of a personal and national dream. Ilan Ramon was a member of the Columbia Space Shuttle team. On February 1, 2003, a malfunction caused the shuttle to disintegrate upon reentering Earth's atmosphere. All members of the team, including Ilan Ramon, perished.

A RIDDLE

For decades scientists from all over the world have been collecting information about the Moon. Solve the riddle and discover your Moon mission's details.

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

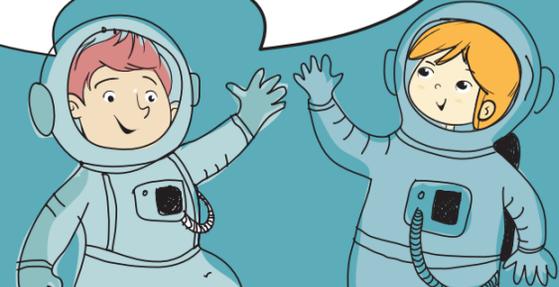


A large puzzle area with a dashed orange border. It contains 26 rows of icons, each corresponding to a letter of the alphabet. The icons are arranged in a way that they can be used to spell out the words 'M', 'O', 'O', 'N', 'M', 'I', 'S', 'S', 'I', 'O', 'N', 'D', 'E', 'T', 'A', 'I', 'L', 'S'. The letters are: M, O, O, N, M, I, S, S, I, O, N, D, E, T, A, I, L, S.

Wow, this riddle is not simple at all!

Flying to the Moon is a much more complicated task.

Try drawing the Moon's surface according to this description and email your drawing to Education@spaceil.com



THE MOON IN FOLKLORE



Native Americans considered the Moon sacred, and pregnant women were not supposed to look at a lunar eclipse, as it was believed that it might affect the mind of the woman and the health of the baby.



An old tradition says that if you happen to notice the crescent moon when you're out at night, turn over all the coins in your pocket, and you'll enjoy financial good luck for the next month.



The ancient Greeks baked round and moon-shaped honey cakes as a tribute to Artemis, a Greek moon goddess, and topped them with candles, which gave the cakes a moonlike glow.



Many European folktales are about werewolves – people who transform into wolf-like creatures when the moon is full.

The most common myth surrounding the full moon is that staring at it evokes lunacy, which means madness. The word "lunacy" stems from the word "luna," which is the Latin name for the Moon.

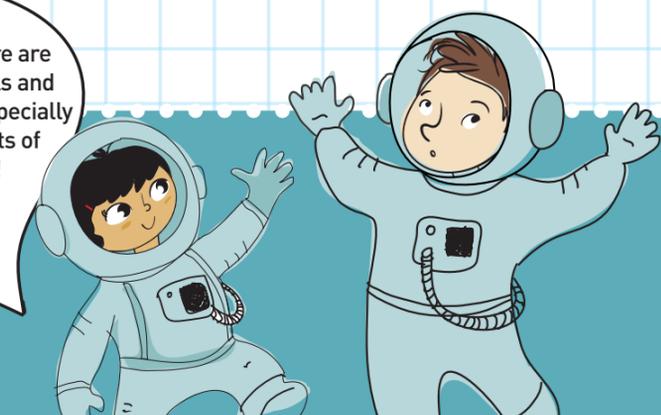
In many languages the name of the second day of the week is derived from the word "moon":

English	Monday	Moon
German	Montag	Mon
French	lundi	Luna
Italian	lunedì	Luna
Spanish	Lunes	Luna

In Chinese mythology, the Moon is the home of Chang'e – the goddess of the Moon and her companion the Jade Rabbit. The legend says that she swallowed the elixir of immortality that belonged to her husband. As a result, she floated into the sky toward the Moon. Since then Chang'e has ruled in the Moon Palace, with the Jade Rabbit keeping her company and making herbal medicine.

I've heard that there are animals, like jackals and wolves, which are especially active on the nights of the full moon!

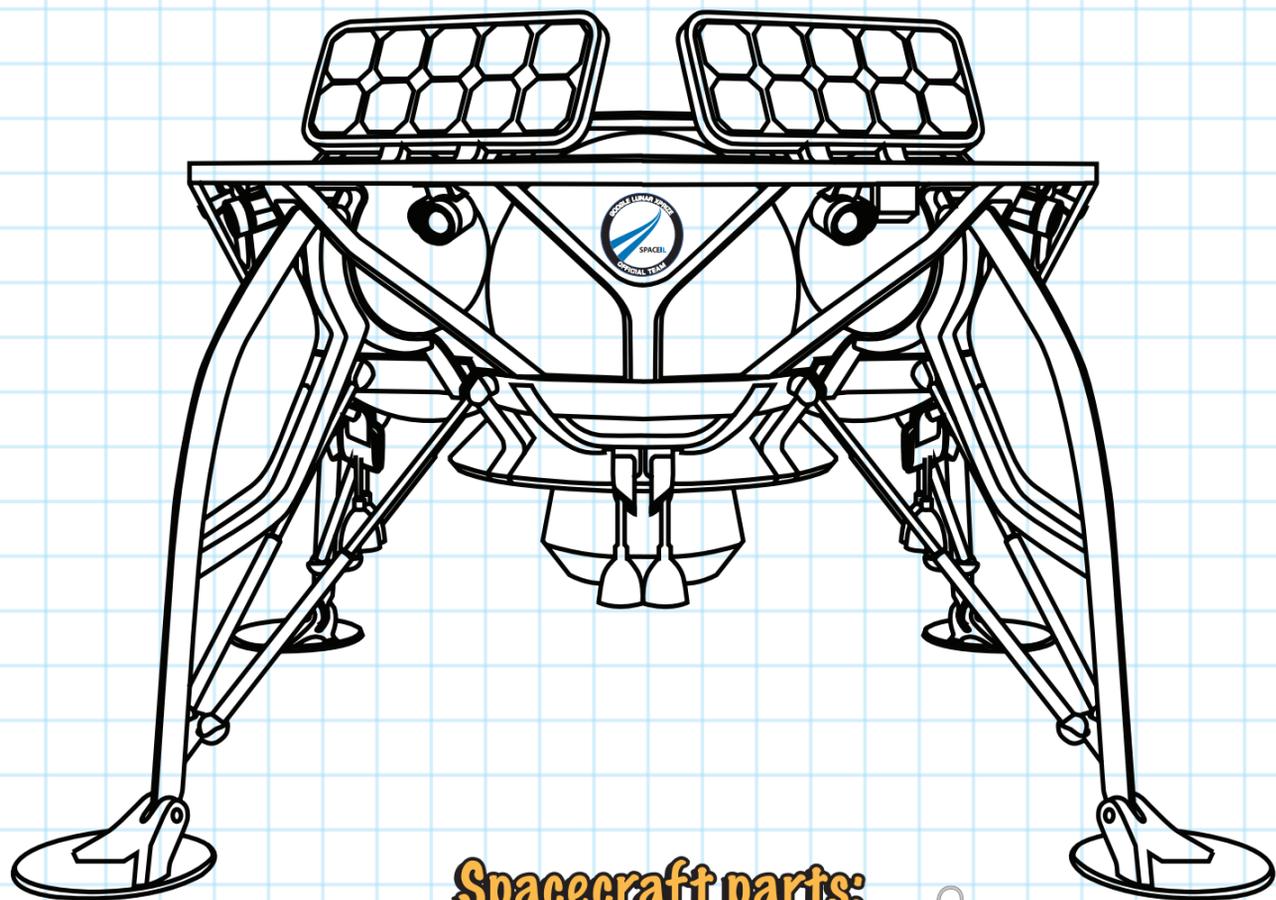
That makes sense. There is more light during a full moon, than on other nights, and it is easier for predators to hunt.



Spacell SPACECRAFT

That's how our spacecraft looks. It has various systems that are operating together for the success of the mission.

Decorate and color the spacecraft parts.



Spacecraft parts:

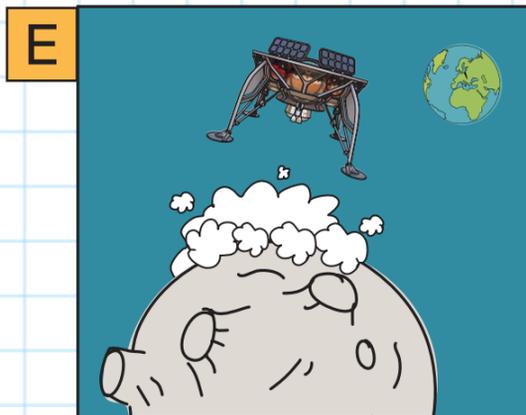
1. **Fuel tanks** – account for 80% of the entire spacecraft's weight. Their job is to propel the spacecraft.
2. **Solar panels** – absorb the solar energy used to operate the spacecraft's systems.
3. **Rocket motors** – responsible for flying the spacecraft, its landing and its movement on the Moon.
4. **Thrusters** – direct the spacecraft in the desired direction.
5. **Antennas** – receive and transmit radio waves, as well as instructions from the station to the spacecraft and back.
6. **Cameras** – enable the transmission of high-quality video and images of the Moon according to the requirements of the competition.
7. **Mission computer** – a small computer that sends commands to various parts of the spacecraft and receives updates about its condition.

For a detailed explanation, scan the QR code:

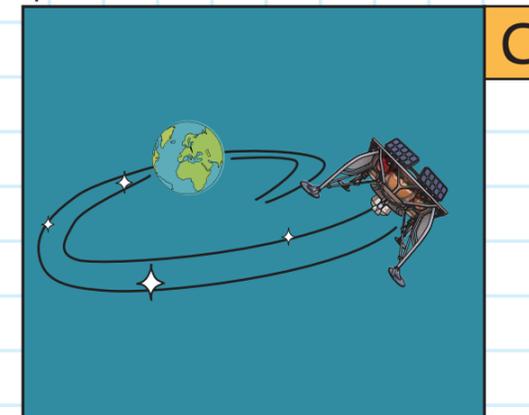


MISSION PHASES

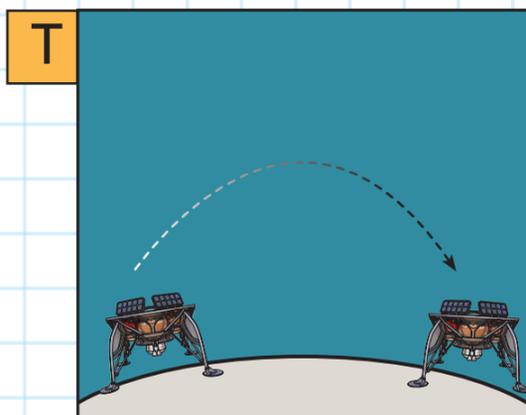
Arrange the illustrations in the correct order and copy the letters accordingly. What word do they spell?



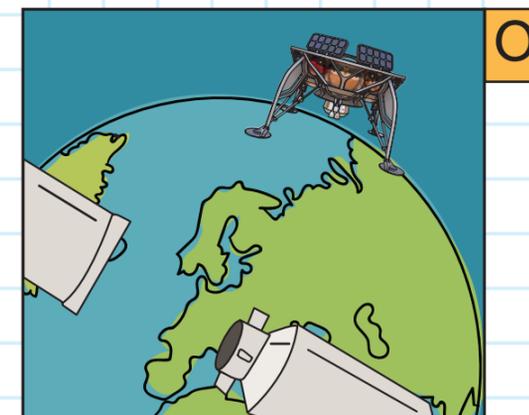
Landing – the spacecraft slows down and its landing gear stabilizes.



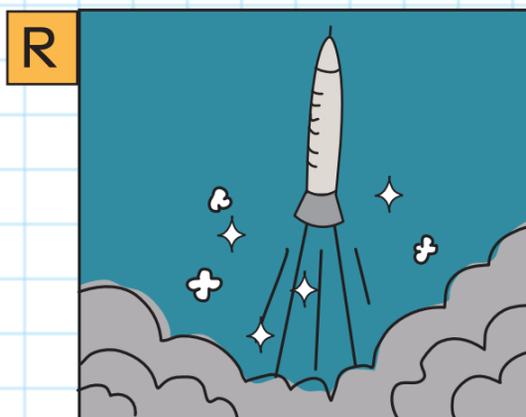
Cruising and flying to the Moon.



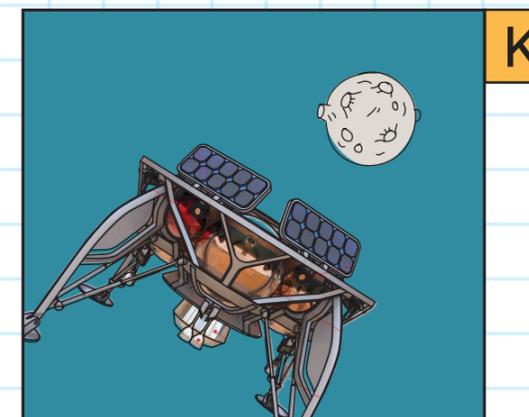
Jump – using the remaining fuel, the spacecraft will jump and land.



Separation from the rocket.



Launch – the spacecraft is attached to a rocket launched from another country.



Approaching the Moon.

The answer is: _____

Our spacecraft is so cool! It looks like a robot

It is small, sort of like a refrigerator, and it knows how to do so many things!

Where does the name "Moon" come from?

The word "moon" can be traced back to Old English, which derives from the Proto-Indo-European word "mens", meaning "month" and "moon."

SPACE TECHNOLOGIES

Follow the lines and find out the answer to each question.

How does the spacecraft navigate?

The spacecraft slows down using the rocket engines, and its landing gear stabilizes it on the ground.

How does the spacecraft withstand extreme temperatures?

The spacecraft's navigation sensors use the sun and the stars to determine the path of the vessel.

How does the spacecraft take off?

The spacecraft is coated with a special insulating material that protects against heat and cold.

How does the spacecraft land on the Moon without crashing?

A rocket helps the spacecraft to overcome Earth's gravity.

Count how many of each item you see in the picture. Write the numbers next to the items. Which number appears most often? Do you know its connection to the Moon?

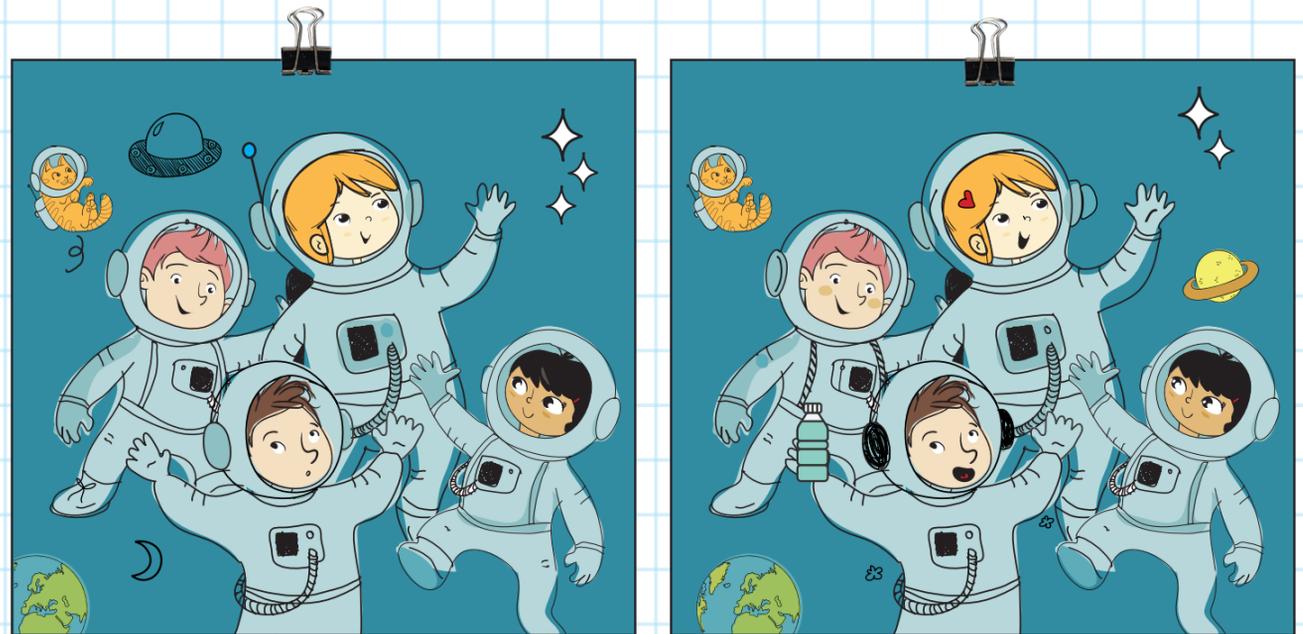


Why are there dark spots on the Moon?

The dark spots, which make up a "face" or a "rabbit" on the Moon, are actually the sun's light being reflected from the basalt deposits on the Moon's surface.

FIND THE DIFFERENCES

Find at least 15 differences between the two pictures.



SUDOKU

Fill in the table so that each illustration appears only once per row, column and highlighted rectangle.

SPACEIL ☆ 🚀 ☀️ 🌙 🪐

	🚀		🪐		SPACEIL
☆		🪐		🌙	
🌙		🚀	SPACEIL		
	🪐		☀️		🚀
	☆	SPACEIL	🌙	🚀	
		☀️			🪐

WORD SEARCH FROM SPACE

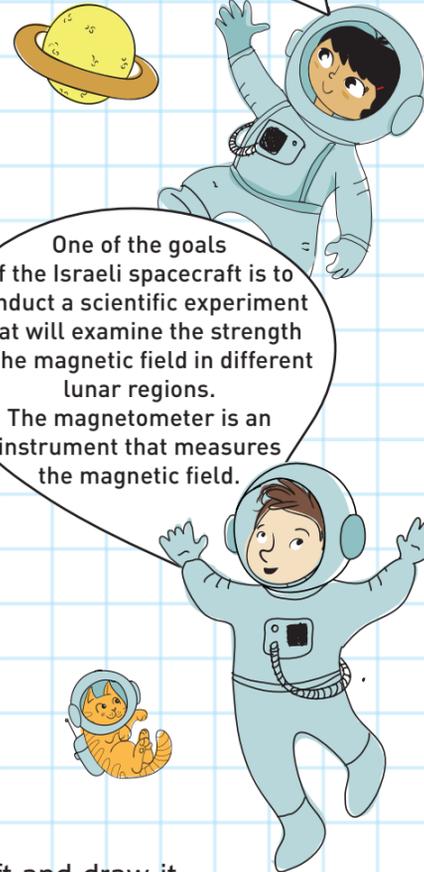
Find and mark all the words hidden inside the box. The words may be placed horizontally left-to-right or right-to-left, or vertically top-down or bottom-up, or diagonally.

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

SpaceIL, meteor, temperature, radiation, Moon, Sun, launch, Neil, magnetometer, Apollo, Luna, universe, atmosphere, spacecraft, Earth, Ilan Ramon.

Magnetometer?
I do not know
that word...

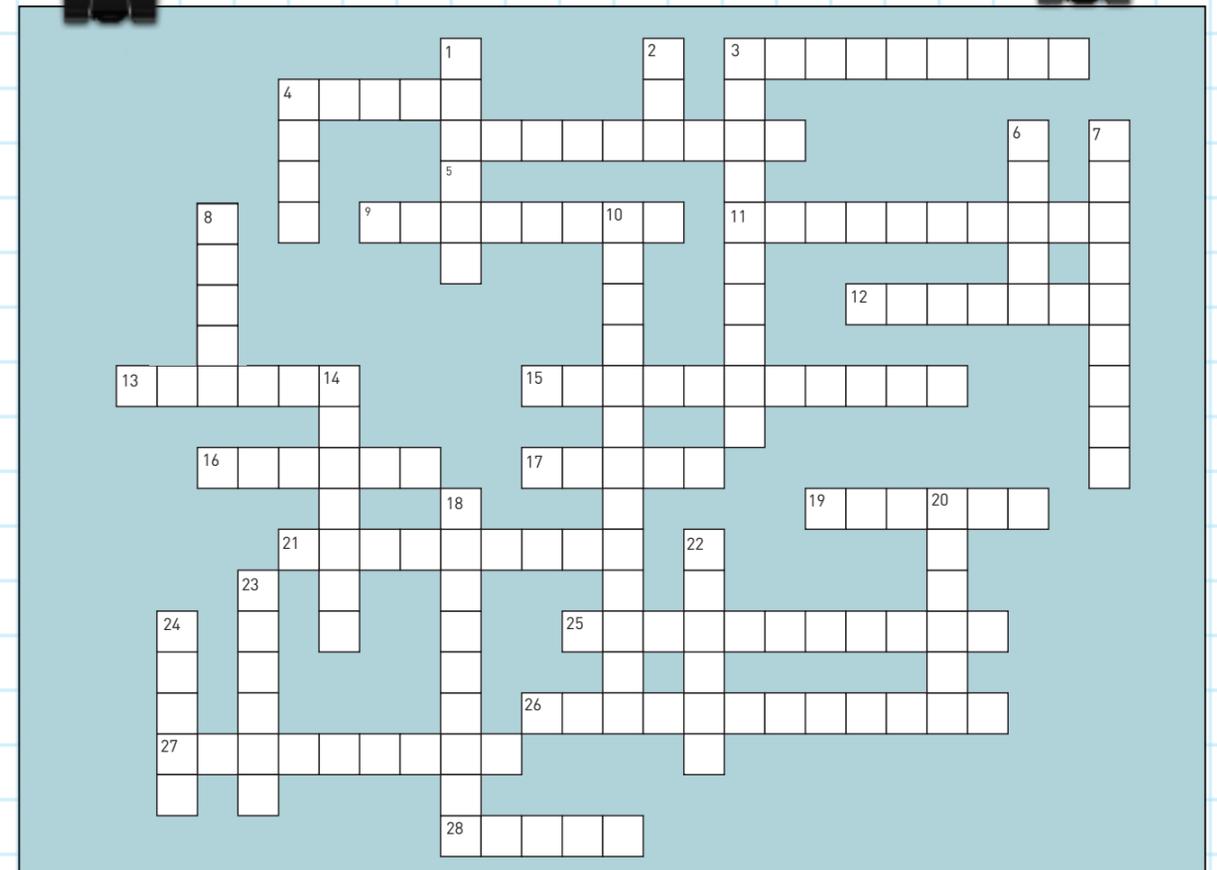
One of the goals
of the Israeli spacecraft is to
conduct a scientific experiment
that will examine the strength
of the magnetic field in different
lunar regions.
The magnetometer is an
instrument that measures
the magnetic field.



Invent your own unmanned spacecraft and draw it.



SPACE CROSSWORD PUZZLE



Across

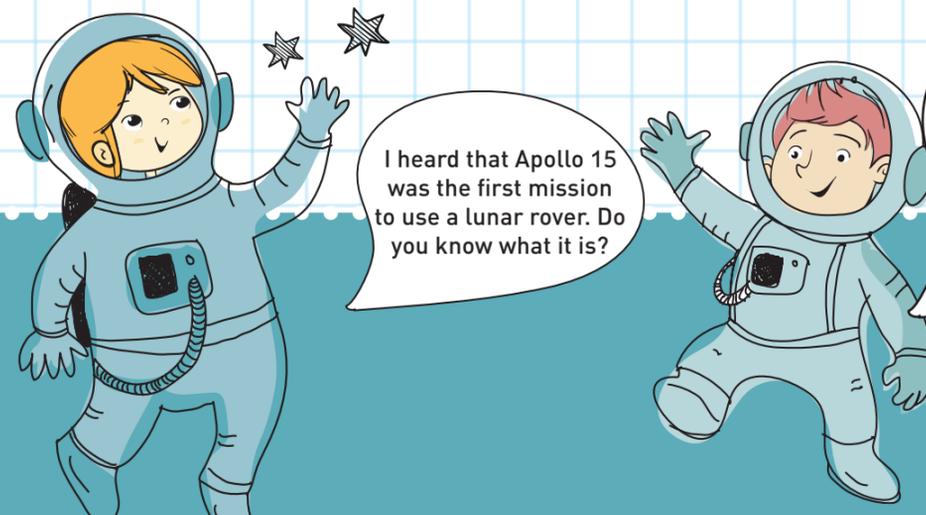
- 3. A person who is trained to travel in a spacecraft.
- 4. Relating to the Moon or designed to land on the surface of the Moon.
- 5. A natural science that studies celestial objects.
- 9. A shape or a symbol representing the Moon.
- 11. A vehicle used for traveling in space.
- 12. An Israeli organization competing in the Google Lunar X Prize to land a spacecraft on the Moon.
- 13. Chinese moon goddess.
- 15. India's first lunar mission.
- 16. American space program.
- 17. A small, frozen mass of ice and dust with a "tail" of gas revolving around the sun.
- 19. The apparent changes in the shape of the Moon due to how much of the sunlit side is facing the Earth.
- 21. A garment designed to allow an astronaut to survive in space.
- 25. The system comprising the Sun and the objects that orbit it.
- 26. An instrument used for measuring magnetic forces.
- 27. The first Israeli astronaut.
- 28. The planet we live on.

Down

- 1. A large, bowl-shaped cavity on the surface of the Moon.
- 2. The the star at the center of the Solar System.
- 3. The gas envelope surrounding celestial bodies.
- 4. Soviet space program for the study of the Moon.
- 6. The place in which the universe and the heavenly bodies are located.
- 7. A moon, planet or machine that orbits a planet or star.
- 8. Roman moon goddess.
- 10. The astronaut that took the first step on the Moon.
- 14. When the view of the Moon in the sky is blocked by the Earth's shadow.
- 18. An optical instrument designed to make distant objects appear nearer.
- 20. Greek moon goddess.
- 22. An astronomical body orbiting a star.
- 23. The day named after the Moon.
- 24. A regular, repeating path that one object in space takes around another one.

I heard that Apollo 15
was the first mission
to use a lunar rover. Do
you know what it is?

A lunar rover is a space
exploration vehicle
designed to move across
the surface of the Moon.
The top speed that was ever
recorded in this
4-wheeled vehicle
was 10.56 miles per hour.





So... When will the Israeli spacecraft land on the Moon?

Soon, very soon...



You are welcome to visit
www.Spacell.com
for additional activities and news from the Moon.

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