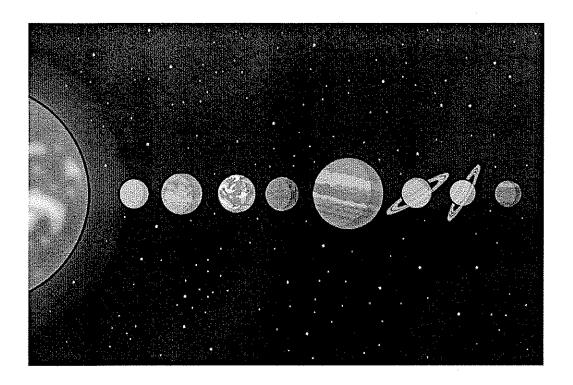
THE SOLAR SYSTEM (based on: "SCIENCE", Keith Kelly, 2007)

1. Label the planets of the solar system as you can see in the picture. Which one is so called "dwarf planet"? Do you know why?



11. The planets

Read the text and fill in the gaps with these words.

asteroids atmosphere belt compressed gas groups hydrogen Mercury nitrogen rocky small
The planets are usually divided into two 1: the inner planets and the outer planets.
Inner planets are sometimes called the 2 planets and include Mercury, Venus, Earth and Mars.
They are the ones closest to the Sun, they have rocky surfaces and are all relatively 3
The outer planets, Jupiter, Saturn, Uranus and Neptune, are giant planets and are often called the 4
planets. They consist mainly of the gases hydrogen, helium and methane. However, these
planets are so cold that the gases are 5 to a liquid or solid state. The two groups of planets
are separated by hundreds of thousands of tiny chunks of metallic rock called 6 They
orbit the Sun between Mars and Jupiter in what is called the asteroid 7 There are so many
asteroids here that there is always a danger of collision for passing spacecraft. Most planets have a layer of gas,
called an 8, covering them. The inner planets have a relatively thin atmosphere, while the gas
planets have a much thicker atmosphere. Earth's atmosphere is a mixture of 9 and oxygen
and smaller amounts of carbon dioxide and water vapour. Jupiter's thick atmosphere, on the other hand, consists
mainly of 10 and helium. The gases in the atmosphere are held close to a planet by its gravity.
On a large planet like Jupiter, where the gravity is 2.6 times greater than on Earth, the lightest gases are held in
the atmosphere. On Earth, however, these gases escape into space. 11 is so small and hot
that it has no atmosphere at all.

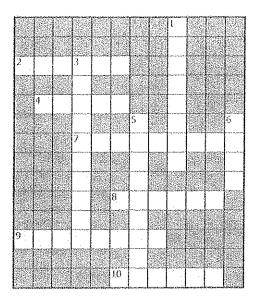
III. Listen to the recording and fill in the gaps with appropriate words or phrases

· is a small asteroid 2		, composed of 3
		steroids that are 4
he Sun in a wide belt between 5		
5 as	teroids are la	rge enough to be seen from Earth. The largest is
		Astronomers once thought that the asteroids
may have formed from the 8		which shattered into small
pieces. However, when added toge	ther, the mas	s of the asteroid is 9.
he size of our Moon. A more widel	y accepted id	ea is that they are 10.
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The few thousand stars which you can	see tars but	together by huge gravitational forces.
The few thousand stars which you can It contains more than a 100,000 million st	see tars but	together by huge gravitational forces. observed with a small telescope, was thought to be in the Milky to
The few thousand stars which you can It contains more than a 100,000 million st A galaxy is a collection of stars and dust	see tars but t held	together by huge gravitational forces. observed with a small telescope, was thought to be in the Milky to was another galaxy about 2.2 million light years away.
The few thousand stars which you can It contains more than a 100,000 million st A galaxy is a collection of stars and dust Galaxies are separated from	see tars but t held ky Way	together by huge gravitational forces. observed with a small telescope, was thought to be in the Milky to was another galaxy about 2.2 million light years away. was thought to be the whole universe.
The few thousand stars which you can It contains more than a 100,000 million st A galaxy is a collection of stars and dust Galaxies are separated from Until the turn of the 20th century, the Mill	see tars but t held ky Way an be	together by huge gravitational forces. observed with a small telescope, was thought to be in the Milky to was another galaxy about 2.2 million light years away. was thought to be the whole universe. each other by vast regions of space.

VI.

What causes the seasons?	
Read the text and fill in the gaps with these words.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
away (x3) longer northern revolution southern tilt towards (x4)	
We divide the year into four seasons: spring, summer, autumn and winter. Summer is much warmer than winter and the days are 1	ne ne

Complete the crossword.



Across

- 2. an extremely large group of stars and planets
- an object in space that leaves a bright stream of gas and dust behind it as it
 moves around the Sun
- 7. an exploding star that produces an extremely bright light
- 8. to spin in a circle around an axis
- 9. a mass of rock that moves around in space
- 10. a very large cloud of dust and gas that exists in outer space

Down

- 1. a curved shape that is wide in the middle and pointed at the ends
- the air around the Earth or around another planet. It consists of three main layers, the lowest being the troposphere, the middle one the stratosphere, and the highest the ionosphere.
- 5. a piece of rock that has fallen from space and landed on the Earth.
- 6. not clear because there is smoke, dust or water in the air.

Vocabulary: shatter - roztříštit se compressed - stlačený relatively - poměrně inner – vnitřní outer – zevnější giant - gigant tiny – maličký, drobný chunk - pořádný kus layer - vrstva hold (held, held) - držet (se) launch - vyslat, odpálit belt - pás(ek) compose - skládat/složit collision – srážka, kolize debris - sutiny, trosky belong to - patřit, náležet dust - prach gravitational force - gravitační síla vast – rozsáhlý, obrovský the turn of ... century - přelom stoleti spiral – spirála encourage - povzbudit/povzbuzovat search for - hledat, pátrat identify - rozpoznat, identifikovat divide into – (roz)dělit (se) revolution - otáčení se, rotace tilt - naklonit/naklánět (se) axis – osa square-on - přímo angle – úhel spread out - rozšiřovat (se), rozrůstat (se) revolve – obíhat, kroužit rotate - točit (se), otáčet leap year - přestupný rok clockwise – ve/po směru hodinových ručiček circular - kruhový, okružní oval – oválný, elipsovitý path - dráha, trasa