

Ukrainian Aircraft Designers

Pre-Intermediate

1. Look at the pictures 1–3 and say what they show. Write the names of the aircrafts.



1 _____



2 _____



3 _____

2. Complete the texts with the words in the boxes and match the people (A–C) to the pictures (1–3).

aircraft emigrated designer helicopter



A Igor Sikorsky (1889 – 1972) was a scientist, inventor and aircraft (1) _____. Sikorsky was born in Kyiv. He designed and flew the world's first multi-engine fixed-wing (2) _____, the *Rusky Vityaz* in 1913, and the first airliner, *Ilya Muromets*, in 1914. He (3) _____ to the USA in 1919. He founded the Sikorsky Aircraft Corporation in 1923. In 1939 he designed the first (4) _____.

transport Bureau aircraft airplanes



B Oleg Antonov (1906–1984) was a prominent (1) _____ designer. He was a resident of Kyiv. He designed over 60 planes of various types, including the largest (2) _____ plane *Ruslan*, passenger and first aid planes. Under his guidance, a new brand of planes – AN – appeared. Antonov is personally responsible for designing a number of very successful (3) _____ (such as the Antonov An-12) and gliders of both civil and military use. He also founded the Antonov Aviation Design (4) _____ in Kyiv.

spacecraft pioneer rocket launch



C Sergiy Korolyov (1906–1966) was a scientist and (1) _____ in space exploration, creator of practical space engineering. He was born in Zhytomyr. He graduated from Kyiv Polytechnic Institute and Moscow Higher Technical School.

He was the lead rocket engineer and (2) _____ designer in the Space Race between the United States and the Soviet Union during the 1950s and 1960s. Korolyov headed the design and (3) _____ of the first sputniks (satellites), (4) _____ carriers and spacecraft Vostok and Voskhod.

3. Match the words to their definitions.

1 aeronautics	A a plane
2 airplane	B a fast plane with a jet engine
3 aircraft	C a vehicle that is able to travel in space
4 helicopter	D the science of designing and flying planes
5 jet	E a machine that has been sent into space and goes around the Earth, moon etc, used for radio, television, and other electronic communication
6 plane	F a type of aircraft with large metal blades on top which turn around very quickly to make it fly
7 spacecraft	G an aircraft that flies in the air and has wings and at least one engine
8 satellite	H a plane or another vehicle that can fly

4. Complete the chart with the words in the box.

captain, jumbo jet, co-pilot, bomber, airliner, steward, cabin crew, warplane, passenger plane, fighter (plane), pilot, flight crew, flight attendants, stewardess

Planes that carry people	Military planes	People on a plane

5. Read the texts again and underlined all the words related to aeronautics, aviation and space flight. Which of them sound similar in Ukrainian? In pairs, compare your lists and explain all the words.

6. Project.



Use the Internet and a library to do research on the inventor of the hot air balloon. Write a short paragraph similar to paragraphs A–C about this person. Then present this person to your classmates.

Vocabulary

<p>aeronautics [ˌeərəˈnɔːtɪks] аеронавтика air [eə] повітря aircraft [ˈeəkrɑːft] літак; літальний апарат airliner [ˈeəlaɪnə] пасажирський літак, авіалайнер airplane [ˈeəpleɪn] літак, аероплан appear [əˈpiə] з'являтися aviation [ˌeɪvɪˈeɪʃən] авіація blade [bleɪd] лезо; лопасть bomber [ˈbɒmə] бомбардувальник bureau [ˈbjʊəreɪ] бюро; відділ; управління aviation design bureau авіа конструкторське бюро cabin crew частина екіпажу літака, яка обслуговує пасажирів captain [ˈkæptɪn] капітан carrier [ˈkæriə] носій carry [ˈkæri] переносити; перевозити creator [kriˈeɪtə] творець crew [kruː] судова команда; екіпаж (судна) design [dɪˈzaɪn] проектувати designer [dɪˈzaɪnə] конструктор, проектувальник Earth [zːθ] Земля engine [ˈendʒɪn] двигун</p>	<p>fighter plane [ˈfaɪtə] [pleɪn] винищувач; рос. истребитель first aid [fɜːst] [eɪd] перша допомога flight [flaɪt] політ, рейс flight attendant [flaɪt] [əˈtendənt] службовець аеропорту, який супроводжує пасажирів до літака flight crew [flaɪt] [kruː] льотний екіпаж found [faʊnd] засновувати glider [ˈɡlaɪdə] планер guidance [ˈɡaɪdəns] керівництво head [hed] очолювати helicopter [ˈhelɪkɔːptə] вертоліт, гелікоптер inventor [ɪnˈventə] винахідник jet [dʒet] реактивний літак jumbo [ˈdʒʌmbəu] 1) слон; Джамбо (кличка слона); 2) громадина, здоровило, велетень (про людину, тварину) 3) тех. агрегат великих розмірів jumbo jet аеробус, великий авіа лайнер launch [lɔːntʃ] запуск; запускати (ракету, супутник) multi- [ˈmʌlti-] багато- passenger [ˈpæsəndʒə] пасажир passenger plane [ˈpæsəndʒə] [pleɪn] пасажирський літак</p>	<p>pilot [ˈpaɪlət] льотчик, пілот co-pilot [ˈkəʊ,paɪlət] другий пілот pioneer [ˌpaɪəˈniə] піонер, першовідкривач plane [pleɪn] літак resident [ˈrezɪdənt] резидент; постійний житель rocket [ˈrɒkɪt] ракета rocket carrier ракета-носії satellite [ˈsætələɪt] супутник scientist [ˈsaɪəntɪst] учений, науковець space [speɪs] космос, космічний простір spacescraft [ˈspeɪskrɑːft] космічний корабель spaceship [ˈspeɪsʃɪp] космічний корабель space exploration [speɪs] [ˌekspləˈreɪʃən] підкорення космосу steward [ˈstjuːəd] стюард, бортпровідник stewardess [ˈstjuːədəs] стюардеса, бортпровідниця wing [wɪŋ] крило vehicle [ˈviːkl] засіб пересування; автомобіль, літальний апарат warplane [ˈwɔːpleɪn] військовий (бойовий) літак</p>
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Answer Keys

1. 1. helicopter; 2. spacecraft; 3. airplane

2. **A** Igor Sikorsky (1889 – 1972) was a scientist, inventor and aircraft (1) **designer**. Sikorsky was born in Kyiv. He designed and flew the world's first multi-engine fixed-wing (2) **aircraft**, the *Rusky Vityaz* in 1913, and the first airliner, *Ilya Muromets*, in 1914. He (3) **emigrated** to the USA in 1919. He founded the Sikorsky Aircraft Corporation in 1923. In 1939 he designed the first (4) **helicopter**.

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He was the lead rocket engineer and (2) **spacecraft** designer in the Space Race between the United States and the Soviet Union during the 1950s and 1960s. Korolyov headed the design and (3) **launch** of the first sputniks (satellites), (4) **rocket** carriers and spacecraft Vostok and Voskhod.

1 A; 2 C; 3 B

3.

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8 satellite	E a machine that has been sent into space and goes around the Earth, moon etc, used for radio, television, and other electronic communication

4.

Planes that carry people	Military planes	People on a plane
passenger plane airliner jumbo jet	bomber fighter (plane) warplane	captain pilot co-pilot flight crew cabin crew flight attendants steward stewardess