

Lesson 2 An air pocket



Listen and read the story of a flight incident below (Pupils Book p. 42 ex. 1)

<http://photodentro.edu.gr/aggregator/lo/photodentro-lor-8521-4064>



A. Jim, Mary and their father are travelling on an aeroplane. Listen to their dialogue. What was the in-flight problem discussed? Where was the plane travelling to?

Problem _____

Flight _____

B. Listen again and complete the sentences:



1. While the plane was flying above the ocean, it _____ a dive.
2. The airhostess _____ coffee and the passenger next to Jim's father _____.
3. Jim's father _____ a magazine.
4. Jim's father _____ his prayers when he heard the captain's voice.

C. The next day Jim went to the school library to find more information about planes and how they fly. Here are some pictures he found:

PICTURE A

Can you help Jim match the four forces with the correct direction?

Drag pushes the plane



forward

Lift pulls the plane

down and backward

Thrust pushes the plane

downward

Gravity pushes the plane

upward



The four forces of flight



Then watch the digital story "Types of Planes" (Pupils Book p. 42 Picture B)

<http://photodentro.edu.gr/aggregator/lo/photodentro-educationalvideo-8522-790>

TYPES OF PLANES

These planes carry passengers and cargo. Their speed is just below the speed of sound (350-750 MPH). Their engine is very powerful and they can travel very quickly with many people and goods.

Boeing 747

760 MPH is the speed of sound. These planes can fly up to five times the speed of sound (760 -3500 MPH). They have a special engine and they are designed with lightweight materials. Do you know why? To have less drag.

Most of the early planes can fly at 100-350 MPH. Examples of this kind of planes are the two- and four-seater passenger planes and seaplanes that can land on water.

Rockets fly at speeds 5 to 10 times the speed of sound (3500 - 7000 MPH) as they orbit. They have a very powerful engine in order to travel at this speed.

1.	The Boeing travels very fast.	T
2.	Rockets fly 4 times the speed of sound.	
3.	The seaplane can land on water.	
4.	The Concorde travels below the speed of sound.	