

# UNIT 7

## Magnetism and the world we live in

### Activity 1A - Grammar



### Past Continuous / Past Simple

*Read the following short texts and circle the Past Simple verbs, and underline the Past Continuous verbs.*

1. Some years ago, my friends and I used to go swimming a lot. One day we were at the beach and I was drying my hair with a towel. When I finished I looked in a mirror and saw that my hair was standing up like a punk's. I felt so embarrassed and put on my baseball cap to cover it. My friends laughed and now my nickname is "Magnet!"
2. I was staying the night at my best friend's house and we were just swapping spooky stories like the Bermuda Triangle when her mum came in with some sandwiches. As soon as she heard 50 Cent on the radio she started to boogie round the room. I used to think my mum was crazy, but hers is worse! My friend almost died of embarrassment!
3. I used to have long hair but some time ago, I had it cut into this really cute short style that I loved. I was out shopping with my mum when she met her friend from work. They were chatting away when all of a sudden the lady said, 'Oh, this must be your son!'
4. I was sitting in a café one day with a girl I like from school when I saw my friend walking past. I ran out to speak to him but unfortunately, I slipped on a biscuit on the floor and went flying! I landed in a bin and when I got up I had lots of wrappers and sauce stuck like a magnet on my T-shirt! I used to like ketchup but now I hate it!
5. I was playing basketball in the street with my brother when this girl I used to like from school stopped to talk to us. We were standing there talking about our physics project and magnetic fields when someone who was walking by bumped into me. By accident, I fell on top of the girl and knocked her onto the ground. I felt so embarrassed, especially as she was so cute.

### Activity 1B

*Use the words you have circled and underlined to write two sentences of your own.*

1 \_\_\_\_\_

2 \_\_\_\_\_

# UNIT 7

## Activity 2



### Grammar: Used to

*Match the two halves of the dialogues.*

- |                                                                          |                                                 |
|--------------------------------------------------------------------------|-------------------------------------------------|
| 1. Damien lives in Lamia now.                                            | A) Yeah but then I changed my mind..            |
| 2. I didn't use to know about magnetism.                                 | B) Then they realised that this was impossible. |
| 3. People used to think aliens took the Mary Celeste's captain and crew. | C) But he used to live in Hania.                |
| 4. Didn't you use to want to be a physicist?                             | D) But now I do                                 |
| 5. People used to believe that lightning strikes magnetised iron..       | E) New theories suggest it was pirates          |

1.....2.....3.....4.....5.....

## Activity 3

*Put the verbs in parentheses into the correct form.*

While we 1. (walk) down the road, I 2. (look) up and saw this amazing light in the sky. When we 3. (get) home, I asked dad what it was but he 4. (not know) either. He said we 5. (dream) and that it was nothing. So, we looked on the internet to see what we could find about bright lights in the sky. As we 6. (browse) through some sites on physics, I 7. (find) a page that talked about the Aurora Boreallis. What's this, I thought. Then, I 8. (discover) that these lights are also called Northern Lights and they happen because of magnetism and the flares of the sun hitting the earth.

1. ....
2. ....
3. ....
4. ....
5. ....
6. ....
7. ....
8. ....



# Magnetism and the world we live in

## Activity 4

Match the questions 1-7 with the answers a)-g).

1. What are the Aurora Borealis or Northern Lights?
2. Where can I go to see the Northern lights?
3. Do the magnetic poles of the earth change place?
4. How can we check that there is a magnetic field?
5. In which direction do magnetic fields run?
6. Where is the magnetic field strongest?
7. Which CDs hold the most data?

- a) From the north to south.
- b) To see them you need a clear, dark sky far away from the light of towns and cities.
- c) Optical and Magnetic Drives. MP3-CDs contain about 10 times as much music as one ordinary CD. These devices electronically convert sound waves to magnetic pulses.
- d) They are solar flares coming in contact with the earth's magnetic field.
- e) The magnetic field is strongest at the poles, where the field lines are most concentrated
- f) Yes, they move tens to hundreds of kilometres because of daily variations and magnetic storms
- g) Easy. Just put a bar magnet on a piece of paper and sprinkle some iron fillings and you can see the shape they make.

## Activity 5 - Writing



*Has anything embarrassing or unusual ever happened to you? Write a short e-mail to tell your friend what happened and what you were doing at the time.*

# UNIT 7

## Activity 6 A

*Look at the girl. She was combing her hair when she felt static electricity. Make a list of the different situations when you might feel an electric shock in your everyday life. Then compare your list with the pictures below to check your ideas.*



## Activity 6 B.



*Look at the pictures and write a short description of what happened to the people in the sketches.*

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

# Magnetism and the world we live in

## Activity 7 A

Nouns with suffix **-ment**

**A. Separate the words in the box into two lists. List A are verbs which can be made into nouns by adding **-ment**. List B are verbs whose nouns do not end in **-ment**.**

*achieve suggest advertise disappear align reflect consist discover develop describe  
prove arrange agree amaze invent measure migrate govern move create*


## Activity 7 B

*Choose five of the nouns and write five sentences.*

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

## Activity 8 Vocabulary



*a) Use the words in the box to make a compound noun.*

- |               |                |
|---------------|----------------|
| i) magnetic   | a) home        |
| ii) everyday  | b) electricity |
| iii) breeding | c) field       |
| iv) coming    | d) ground      |
| v) static     | e) lives       |

*b) Use suitable compound nouns to make sentences.*

- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- iii) \_\_\_\_\_
- iv) \_\_\_\_\_
- v) \_\_\_\_\_

# UNIT 7



## Activity 9

Complete the following sentences by choosing the correct word for each space.



- While Smythe was using his ..... to find North, Hyde had a look at the map.  
a) hands                      b) pen                      c) compass                      d) needle
- Our ..... door is covered in little magnets which hold our messages.  
a) books                      b) fridge                      c) thermometers                      d) magnets
- When Lydia touched the computer ..... she got a small shock of static.  
a) board                      b) key                      c) mouse                      d) screen
- When animals or birds migrate it is mainly because of their .....  
a) mothers                      b) fears                      c) hunger                      d) instinct
- Many new cars today have ..... systems which give directions.  
a) navigation                      b) mapping                      c) direction                      d) field
- The compass ..... indicates which direction to go in.  
a) arm                      b) hand                      c) indicator                      d) needle
- The Greek word for ..... is peristeri.  
a) whale                      b) tortoise                      c) shark                      d) pigeon
- Greece produces different ..... such as bauxite and tin.  
a) minerals                      b) fuels                      c) stones                      d) products
- There is a huge ..... of bauxite in the Greek mountains.  
a) number                      b) size                      c) area                      d) amount
- The ..... aircraft did not lose its way as all the electronic gadgets worked perfectly.  
a) flying                      b) magnetic                      c) mobile                      d) military



## Activity 10

In the reading texts you came across the phrase 'year after year' which means every year. There are many other phrases with 'after' in them in English. Use a dictionary to help you to write a sentence to include each of the expressions.

called after	after all	look after	after some time	time after time
year after year	soon after	after a while	after one another	after all that

.....

.....

.....

.....

.....

.....

.....

.....

# Magnetism and the world we live in

## Activity 11

Complete the following sentences with one of the expressions in the box.

find your way    which way    no way    in a way    had a way

- \_\_\_\_\_ I agree with you about the possibility of pirates robbing the ship, but there are some problems.
- There's \_\_\_\_\_ that animals actually know where they are going to when they migrate!
- You have a point, I agree. However, it really depends on \_\_\_\_\_ you look at the issue.
- The brilliant Physics teacher \_\_\_\_\_ to make students understand the laws of Physics.
- As you have a compass, it should be easy to \_\_\_\_\_ home in the dark.

## Activity 12

### Similar but different

Choose the correct word in italics to complete each of the sentences

- The *tale / tail* of the mystery of the Marie Celeste is well known.
- The *number/amount* of current depends on the generator.
- Electricity is *streaming/flowing* through that wire so don't touch it!
- You can find the magnetic *field/area* of a magnet by using iron fillings.
- The strength of a magnetic field is *connected/related* to the flow of current.
- Research *says/suggests* that there are many myths concerning the origin of the word magnet.
- The *mind/brain* of most animals contains magnetite cells.
- Fish and mammals *as/like* sharks and dolphins migrate each year.
- It is still a mystery how animals manage to find their *route/way* across the world.
- The compass wasn't *work/working* so the captain had no idea where he was.
- The needle on the compass was *shaking/flowing* so much that it was impossible to know which direction was North.
- The mystery of the lost planes is *alike /similar* to the story about the missing ships.



# UNIT 7

## Activity 13

### Verb + preposition

A. Match the verbs with a correct preposition

regard  
know  
relate  
aligns  
result

in  
with  
as  
about  
to

B. Complete the following sentences with a suitable verb plus preposition.

1. The disappearance of the planes ..... a massive search and rescue operation.
2. What do you ..... Einstein's Theory of relativity?
3. Many scientists ..... Maxwell ..... the world's greatest physicist.
4. Different mystery writers have ..... the disappearing ships ..... magnetic fields.
5. Research has shown that the iron oxide in a bird's brain ..... magnetic north.





# UNIT 8

## Getting Around

### Activity 1

*Match the two halves of each sentence by drawing a line.*

- |                                                       |                                            |
|-------------------------------------------------------|--------------------------------------------|
| 1. There's a boy in my class                          | A. who invented the airplane were American |
| 2. The taxi driver didn't know                        | B. when the next one will come along       |
| 3. The buses here are so irregular and you never know | C. whose father is a train conductor       |
| 4. Is this                                            | D. which way to get to the airport         |
| 5. The men                                            | E. where I get the flight for Paris?       |

### Activity 2A

*Complete the tag questions.*

- You have a bike, \_\_\_\_\_
- Christine flew to a holiday resort, \_\_\_\_\_
- Your dad can drive a car, \_\_\_\_\_
- Martin's mum knows how to ski, \_\_\_\_\_
- James is a pilot, \_\_\_\_\_
- We are travelling first class, \_\_\_\_\_

### Activity 2B

*Complete the tag questions*

- You didn't pay full fare, \_\_\_\_\_
- Angela doesn't know how to drive, \_\_\_\_\_
- Frank isn't an astronaut, \_\_\_\_\_
- We can't park here, \_\_\_\_\_
- You aren't old enough to drive a motorbike, \_\_\_\_\_
- You don't like cycling, \_\_\_\_\_



# UNIT 8

## Activity 3

*What is a suitable idiom for each of the sketches?*



## Activity 4

*Use one of the responses from the right for each question.*

- |                                                         |                        |
|---------------------------------------------------------|------------------------|
| 1. Why do you want to try sideways biking?              | a) a holiday resort    |
| 2. What are the health advantages of having skateboard? | b) it's good fun       |
| 3. Can I leave now?                                     | c) at top speed        |
| 4. When do you feel most afraid on your motorbike?      | d) at either end       |
| 5. What stopped you from hitting the water?             | e) a river bank        |
| 6. What is your waterbike to you?                       | f) feel free to go     |
| 7. Where did the boat stop?                             | g) a whole meaning     |
| 8. Where do you steer the sideways bike?                | h) it keeps you fit    |
| 9. How would you describe Santorini?                    | i) at the water's edge |

## Activity 5

*Use the verbs in the bubble to complete the following sentences.*

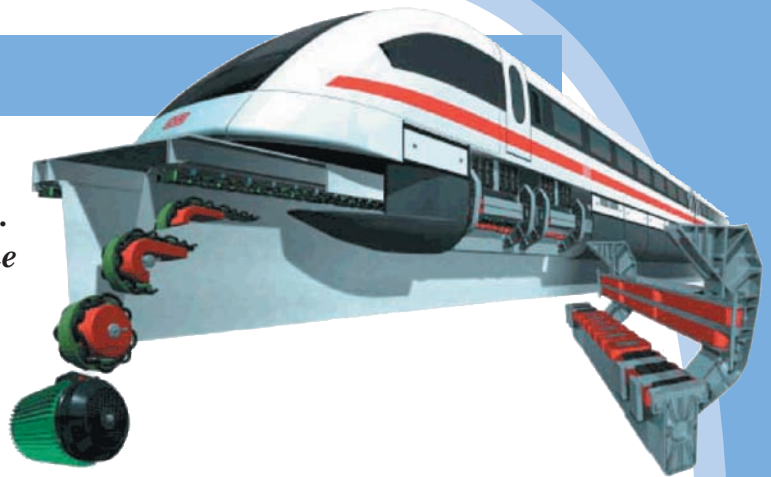
- I have a flat tyre and need to ..... it with air.
- Please ..... the wheel in the boot of the car.
- It is not easy to .....sideways bike.
- Is it difficult to ..... that machine?
- The coach might ..... because of the ice on the road.
- Push the ..... hard to get the bike moving.
- The waterbike does not ..... any waves on the water.
- It might be a good idea to ..... a piece of string to your board.
- Skis do not .....on water.
- Having a sled .....you to travel across snow.

attach  
create  
enables  
float  
inflate  
operate  
pedal  
place  
skid  
steer

# Getting Around

## Activity 6

*A. The train in the picture is the Maglev train. The name is made up of two parts. Use the information you discovered in the Unit about magnetism to write an explanation of what the word Maglev means on the lines provided.*



.....  
.....

## Activity 7

*Complete the table with ways of getting around with wheels and without wheels?*

With wheels	Without wheels	
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

## Activity 8

*Write an explanation for the meaning of the following road signs.*



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

# UNIT 8

## Activity 9 - Collocations

*Make a suitable word pair by using words from the box.*

sailing	driver	top	sickness	means	transport
---------	--------	-----	----------	-------	-----------

- a) public \_\_\_\_\_
- b) \_\_\_\_\_ of transport
- c) backseat \_\_\_\_\_
- d) travel \_\_\_\_\_
- e) \_\_\_\_\_ speed
- f) plain \_\_\_\_\_

## Activity 10

**Getting around words:**

*Complete the following sentences with the correct word.*

- My father parked his car in the ..... space in front of the shop.  
a) parking                      b) area                      c) park                      d) car
- Let's make a ..... as it is getting late.  
a) step                      b) walk                      c) walk                      d) move
- William parks his car in the ..... outside his house.  
a) car park                      b) driveway                      c) highway                      d) motorway
- That plane which is sitting on the ..... is flying to Peking.  
a) parking                      b) walkway                      c) runway                      d) airport
- There is a ..... over the main road so don't worry about crossing.  
a) pavement                      b) footway                      c) roadway                      d) walkway
- It is not allowed to park your car on the .....  
a) road                      b) street                      c) pavement                      d) driveway
- When you come to the end of the main road, you will see a country ..... up to the farm gate.  
a) motorway                      b) runway                      c) lane                      d) pavement
- You cannot park in the ..... without permission.  
a) car park                      b) motorway                      c) parking                      d) place
- Look at the time! Let's ..... the road before it's too late.  
a) get                      b) make                      c) hit                      d) take
- The motorbike ..... a top speed of 180 km per hour.  
a) does                      b) runs                      c) makes                      d) goes

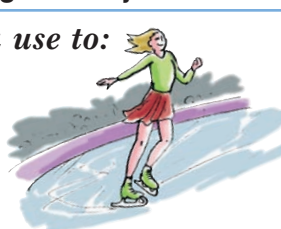
## Activity 11

**Transportation words**

dog sled    ice skates    helicopter    hang glider    jet ski

*Which of the words in the box would you use to:*

- a) travel from Ioannina to Salonica
- b) cross the Arctic
- c) enjoy yourself in the mountains
- d) dance in a rink
- e) have a good time near a beach



# Getting Around

## Activity 12

*Match the transportation on the right with the appropriate clue.*

- |                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| 1. You have to pedal to ride this.                                           | boat          |
| 2. It rides on tracks.                                                       | motorcycle    |
| 3. It has wings and flies in the sky.                                        | rubbish truck |
| 4. When your vehicle is not working, this transports it.                     | bicycle       |
| 5. This floats on top of the water.                                          | submarine     |
| 6. It is what most people drive.                                             | airplane      |
| 7. It has two wheels and no doors or roof.<br>It takes petrol to make it go. | train         |
| 8. This vehicle transports your trash to the dump.                           | tow truck     |
| 9. It transports people under the ground.                                    | car           |
| 10. This vessel can travel under the water.                                  | metro         |

## Activity 13

### *Reading a Chart - Answering Bus Schedule Questions*

**Directions:** Complete the statements about the bus schedule.

DEPARTING	TIME OF DEPARTURE	ARRIVING	TIME OF ARRIVAL
Alexandroupoli	6:00 a.m.	Athens	4:00 p.m.
Kavala	10:30 a.m.	Larissa	2:30 p.m.
Thessaloniki	3:00 p.m.	Lamia	7:00 p.m.
Serres	7:30 p.m.	Thessaloniki	1:30 p.m.
Alexandroupoli	11:00 a.m.	Athens	0.:30 p.m.

- The first bus from Alexandroupoli departs at \_\_\_\_\_.
- The bus trip from Kavala to Larissa is \_\_\_\_\_ hours long.
- The bus from Thessaloniki to Lamia arrives at \_\_\_\_\_.
- There are \_\_\_\_\_ bus trips from Alexandroupoli to Athens.
- The last bus from Serres to Thessaloniki leaves at \_\_\_\_\_.



# UNIT 8

## Activity 14

### Reading - Breaking the law

*Read the following scenario and answer the questions.*

Henrietta is driving down Pines Avenue. She is doing 60 miles per hour in a 40 mile per hour zone. Henrietta is not wearing a seat belt. She looks in her rear view mirror and notices blue flashing lights. It is a police car.

1. What law did Henrietta break?
2. What should Henrietta do first?
3. What might the police officer say to her?
4. What punishment do you think she should get?

## Activity 15

*Read the text and draw a line on the route the tourist takes around Athens.*

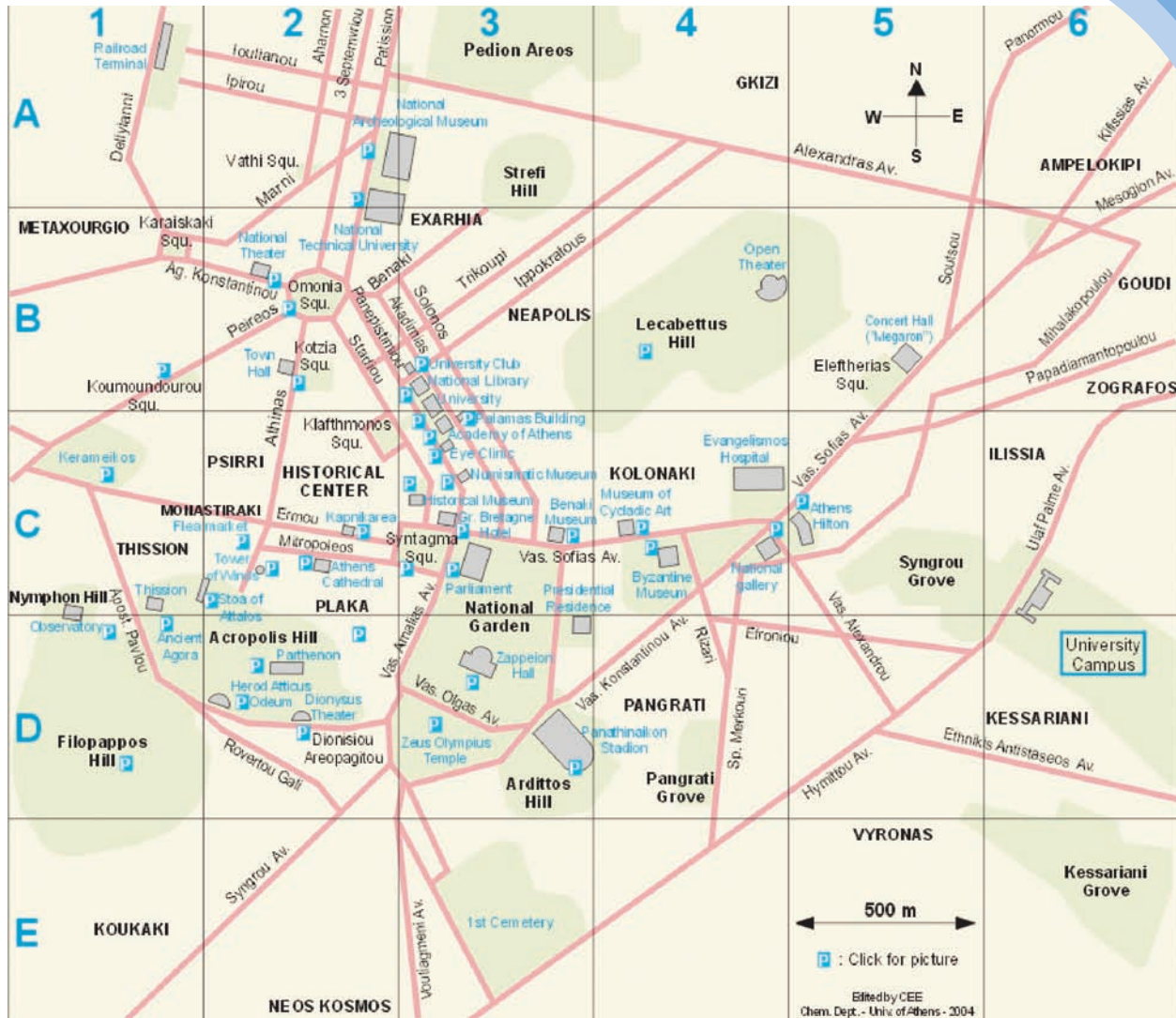
Walking Tour: Central Athens, Kerameikos & Psirri

To feel the buzz of the cutting-edge arts spaces sprouting up in Athens's roughneck former industrial district of Gazi, start at Technopolis, a foundry converted to an arts complex. Across the street, you'll reach the beginning of the Unification of Archaeological Sites walkway. Follow the pretty walkway up, where those interested in archaeology should visit Kerameikos Cemetery, the burial ground of ancient Athens's famous citizens. Continue east on Ermou to the intersection with Ayion Assomaton, where the 11th-century church of Ayioi Assomatoi stands.

Nearby, you can visit the Museum of Islamic Art, whose arrival in the neighbourhood reinforces its rebirth as an arts community. The quirky, run-down neighbourhood of Psirri, which gives you a different view of the city, starts here. After taking some time to explore its narrow streets, make your way to Evripidou and the oddest church in Athens, Ayios Ioannis Kolonastis, at the intersection with Menandrou.

Continue east on Evripidou, lined with aromatic shops selling herbs, nuts, olive oil soap, and household items, until you reach the Central Market, on the corner of Athinas. Hectic, crowded Athinas stretches from Omonia Square to Monastiraki and is replete with vendors of everything from canaries to garlic braids, but the 19th-century meat-and-fish market is the most entertaining spot. Evripidou ends at Klafthmonos Square and what is perhaps the oldest church in Athens, Ayii Theodoroi. Cross Stadiou, walking up the Korai pedestrian zone to the Old University complex on Panepistimiou. Then turn right and head a few blocks down to the impressive Numismatic Museum, ensconced in a neoclassical house. Alternately, continue along Stadiou towards Syntagma to the triangular Platia Kolokotroni, where a statue of the revolutionary war hero General Theodoros Kolokotronis astride his horse marks the entrance to the National Historical Museum.

# Getting Around



# UNIT 8

## Activity 16

Look at the signs below and circle the correct meaning for each.



1. a) Put the old tickets in the bin  
b) Keep your old tickets  
c) Use your tickets here
2. a) Don't park here  
b) Don't pay here  
c) Pay for your ticket and show it on the car window
3. a) No entrance to students when staff are not present  
b) No staff allowed when students are present  
c) Nobody is allowed when students are absent
4. a) people on bikes come the other way  
b) bikes with people here  
c) be careful of cars
5. a) You must protect your shoes  
b) You must protect your feet  
c) You must fear something to protect your feet
6. a) Don't block this entrance  
b) Park here in emergency  
c) Parking allowed
7. a) Entrance to the bar only  
b) No drinking alcohol here  
c) The pub is closed



# Revision

## Activity 1

*Complete the text by putting the verbs into the correct form of the Past.*

While Joanna ( walk) 1..... along the street, she (meet) 2..... her old friend Gerasimos who (be) 3..... very happy to see her. She (ask) 4..... him if he (go) 5..... to the school party and he (say) 6..... that he ( not be) 7..... because he (not like ) 8..... parties.

\_\_\_/4 points

## Activity 2

*Complete the following sentences by choosing the correct word for each.*

- My uncle ..... live in France but now he lives in Kalamata.  
a) usually                      b) use                      c) used to
- Didn't your father ..... have a red car?  
a) used                      b) always                      c) use to
- I wanted to see a film about the Arctic but ..... I thought about it, I changed my mind.  
a) when                      b) as                      c) while
- My father sang a song ..... we were driving along the road.  
a) after                      b) while                      c) and
- Where ..... you going when you saw the strange shape in the sky?  
a) were                      b) did                      c) are

\_\_\_/5 points

## Activity 3

*Write a sentence using each of the words in the box.*

invented      discovered      found      created      built

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

\_\_\_/5 points



# Test

## Activity 4a

*Match the compound nouns*

- |              |           |
|--------------|-----------|
| 1. captain's | a) lives  |
| 2. magnetic  | b) bulbs  |
| 3. light     | c) log    |
| 4. atomic    | d) fields |
| 5. everyday  | e) power  |

1..... 2..... 3..... 4..... 5.....

\_\_\_/5 points

## Activity 4b

*Use the compound words to complete the following sentences*

- The ..... was lying on his desk.
- Many people experience strange events in their .....
- Some scientists believe that ..... can help reduce pollution.
- The ..... exploded when I switched on the power.
- The earth is surrounded by .....

\_\_\_/5 points

## Activity 5

*Choose the correct word in italics to best complete each sentence.*

- The teacher asked for a *survivor/volunteer* to help collect the litter in the school.
- At school his dad had the *surname/nickname* of Fat Billy.
- The animal's *sense/instinct* tells it which way is north.
- The compass *metal/needle* was stuck so we didn't know in which direction to go.
- A television screen has got a magnetic *field/area* around it.
- The *surface/face* of the computer monitor gives off static electricity

\_\_\_/3 points



# Revision

## Activity 6

*Which of the prepositions in the box goes with ALL of the nouns?*

in  
with  
of  
for

- cargo \_\_\_\_\_
- intervals \_\_\_\_\_
- energy \_\_\_\_\_
- results \_\_\_\_\_
- cause \_\_\_\_\_
- side \_\_\_\_\_

\_\_\_/3 points

## Activity 7

*Match the nouns to a suitable ending on the right.*

- |                |                      |
|----------------|----------------------|
| 1. cargo       | a) of magnetic waves |
| 2. intervals   | b) of the experiment |
| 3. energy      | c) of the accident   |
| 4. the results | d) of the ship       |
| 5. the cause   | e) of time           |
| 6. the side    | f) of alcohol        |

1..... 2..... 3..... 4..... 5..... 6.....

\_\_\_/3 points



# Test

## Activity 8

*Choose the correct verb from those in the box to best complete each of the sentences 1-7*

attract    sponsor    regard    report    work    repels    consist

1. The North pole of a magnet ..... the South pole.
2. The bank has decided to ..... a clean up of the local river.
3. It is wrong to ..... the beach as a place where you can dump rubbish.
4. How does a compass .....?
5. All mobile phones ..... of plastic parts and a magnet.
6. The headmaster told the students to .....what they discovered in the science experiment.
7. The beaches of Cephalonia ..... turtles every year to come and lay their eggs.

\_\_\_/7 points

TOTAL \_\_\_/40 points

