

# Science & scientists

## 1. Match the names of different scientists to what research.

a biologist a chemist a geneticist a geologist a physicist

- \_\_\_\_\_ natural forces, e.g. light, sound, heat, etc.
- \_\_\_\_\_ living things, e.g. animals and plants
- \_\_\_\_\_ the structure of substances, what happens in different situations, and when they are mixed with each other
- \_\_\_\_\_ the cells of living things (genes) that control what a person or plant is like
- \_\_\_\_\_ rocks and how they are formed

## 2. Fill in the table with correct words.

PERSON	ADJECTIVE	SUBJECT
1 scientist	scientific	science
2 chemist		
3 biologist		
4 physicist		
5 geneticist		
6 geologist		

## 3. Connect the verbs and phrases to their meaning by writing the right number.

1 - do experiments 2 - do research 3 - discover  
4 - study 5 - solve problems 6 - hypothesize  
7 - invent 8 - collect data 9 - make theories  
10 - make predictions 11 - observe 12 - prove

- \_\_\_\_\_ - to make an educated guess
- \_\_\_\_\_ - to make a guess about the future
- \_\_\_\_\_ - to collect, gather facts
- \_\_\_\_\_ - to find something for the first time
- \_\_\_\_\_ - to make something for the first time
- \_\_\_\_\_ - to test something under controlled conditions
- \_\_\_\_\_ - to look at something carefully for some time
- \_\_\_\_\_ - to find solutions
- \_\_\_\_\_ - to make an explanation for something
- \_\_\_\_\_ - to show that something is true or correct
- \_\_\_\_\_ - to investigate something and do experiments
- \_\_\_\_\_ - to learn about something



## 4. Now fill in the text below with the words you have learned.

test correct discover evolution repeat support  
experiments incorrect laboratory works theory  
telescope undermine journal

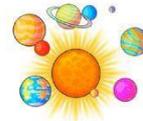
The aim of science is to \_\_\_\_\_ new facts about the world. Scientists find out new facts by making observations, or by doing \_\_\_\_\_. Astronomers, for example, discover new facts by making observations through a \_\_\_\_\_, and chemists discover new facts by doing experiments in a \_\_\_\_\_. An idea that explains why something is true, or how something happens, is called a scientific \_\_\_\_\_. For example, Charles Darwin created the theory of \_\_\_\_\_, to explain how all the different species in nature developed over time. Scientists then designed experiments, and made observations, in order to \_\_\_\_\_ his theory. The results of an experiment might sustain a theory, or they might \_\_\_\_\_ it. If scientists keep getting results that weaken a theory, they should accept that it is \_\_\_\_\_. But if they keep getting results that \_\_\_\_\_ a theory, they should accept that a theory is \_\_\_\_\_. Scientists who find new evidence that supports or undermines a theory will publish their results in a scientific \_\_\_\_\_. The results will only be accepted as valid if others can \_\_\_\_\_ the observation or experiment and get the same results. This is how science \_\_\_\_\_.

## 5. Match the descriptions to the nouns.

Solar System a rocket a meteor  
a telescope an observatory a galaxy

- A vehicle that is able to go to space is \_\_\_\_\_
- A building designed and equipped for observing astronomical phenomena is \_\_\_\_\_
- The instrument that makes distant objects seem closer is the \_\_\_\_\_
- A piece of rock or metal from space, that burns brightly when it enters the Earth's atmosphere is \_\_\_\_\_
- The sun is at the center of the \_\_\_\_\_
- Any of a vast number of star systems held together by gravitational attraction is \_\_\_\_\_

## 6. Now write the vocabulary from exercise 5 under the correct pictures.



## 7. Discuss:

What do you think is the most important scientific discovery of recent years?

Are there any scientific discoveries that you wish hadn't been made?

Would you ever agree to be a volunteer in a clinical trial of a new drug?

If you were ill, would you agree to be a guinea pig for a new kind of treatment?

Are you worried about any of the things scientists are currently experimenting with?

What would you most like scientists to discover in the near future?

## 8. Connect the lab equipment elements to their names.



magnet goggles beaker flask lab coat test tube microscope dropper burner