

Grade 7 Natural Science Worksheet

Assessment Task: Scientists: careers

Jobs that scientists do

Part One: Types of scientists

Complete the table below.

Type of scientist	What they do	Where they work
Zoologist		
Palaeontologist		
Environmental scientist		
Ecologist		
Astronomer		
Virologist		
Anatomist		
Physiologist		
Botanist		
Geneticist		
Epidemiologist		
Geologist		
Meteorologist		
Vulcanologist		
Biochemist		

[30 marks]

Grade 7 Natural Science Worksheet

Part Two: The skills scientists need

You will now draw up a new table.

The table heading will be: The skills scientists need.

The column headings will be: Practical skills, Investigation skills, Thinking skills;

Communication skills.

Read the information in the text and then organise the skills given into their columns. You can also add in any other skills you think scientists should have.

Scientists do need special skills in order to do their work properly. Scientists need to be able to read well and write reports and essays. They usually need to be able to speak well to communicate their ideas to others. They need to be able to ask questions and solve problems. They need to be able to predict solutions and analyse and interpret their answers. Very often they need to compare their work with the work of other scientists. Planning and performing experiments are important skills that scientists need to have. They very often need to be able to use specialised technical equipment and apparatus. Measuring skills are important to scientists. Some scientists need to be able to draw well. Scientists need to be able to draw graphs and interpret them. Scientists need to be able to draw conclusions based on their research. Scientists need to plan their time well and know how to work efficiently without wasting time and money.

[20 marks]

Grade 7 Natural Science Worksheet

Suggested Solutions

Question number	Possible marks	Solution		
1	30			
		Type of scientist	What they do	Where they work
		Zoologist	Studies animals.	In the field, in laboratories.
		Palaeontologist	Studies fossils.	At fossil sites in the field, in laboratories.
		Environmental scientist	Studies the relationships between organisms in the environment and the impact of humans on the environment.	In the field, in laboratories.
		Ecologist	Studies organisms in their environment.	In the environment.
		Astronomer	Studies the stars and planets.	In an observatory, on a space station.
		Virologist	Studies viruses.	In a laboratory.
		Anatomist	Studies the structure of bodies.	In hospitals, in laboratories.
		Physiologist	Studies how systems in bodies work.	In hospitals, in laboratories.
		Botanist	Studies various aspects of plants.	In the field, in laboratories.
Geneticist	Studies genetics and inheritance.	In laboratories, hospitals.		

Grade 7 Natural Science Worksheet

		Epidemiologist	Studies diseases that occur in epidemics.	In laboratories, hospitals, in the environment.
		Geologist	Studies rocks and geological formations on earth.	In the field, in laboratories.
		Meteorologist	Studies patterns in weather.	In weather stations, in the field, in laboratories.
		Vulcanologist	Studies volcanoes.	In the field at the site of volcano, in laboratories.
		Biochemist	Studies the chemistry of living organisms.	In laboratories.
2	20	The skills scientists need		
		Practical skills	Investigation skills	Thinking skills
		Communication skills		
		Use specialised technical equipment and apparatus.	Ask questions.	Ask questions.
		Read well.		
		Measuring.	Solve problems.	Solve problems.
		Write reports and essays.		
		Draw well.	Performing experiments.	Predict solutions.
		Speak well.		
		Plan their time.	Planning.	Analyse.
		Work efficiently.	Draw graphs and interpret them.	Interpret.
			Draw conclusions.	Compare.
		These are only suggestions. Be flexible as learners may interpret the		

Grade 7 Natural Science Worksheet

		information differently.
--	--	--------------------------