SYLLABUS SCIENCE GR6. 2018.

Numbers of	Lessons' topic	Tasks, skill development	Development areas	Vocabulary, new terminology
Lessons				
	I. Orientation			
	in reality and			
	on the Map			
1.	Oceans and	Orientation on the globe and on	The complexity of systems,	Spheres: geo,-atmo,-hydro,-bio
	continents on the	the map. Recognising landscapes	their inner system of	Oceans, seas, continents -in order
	surface of the Earth	and oceans on different scales and	relationship recognition.	of size
		charts.	Map use and knowledge.	
2.	Geographical	Developing spatial orientation on	Applying knowledge of the	Network of degrees, latitude and
	network of degrees	the globe. Understanding the	geographic network.	longitude lines, globe, major
		hierarchical relationships of the		lines of latitude, Prime Meridian,
		geographic space. Recognising		hemispheres
		the notable latitudes on the map.		
		Geo-location with different		
		content maps.		
3.	Pinpoint your	Developing spatial orientation on	Applying knowledge of the	Coordinate system, grid, latitudes
	location	the globe. Understanding the	geographic network.	and longitudes intersect each
	Practice	hierarchical relationships of the		other

		geographic space. Recognizing		
		the notable latitudes of a map.		
		Geo-location with		
4.	Our continent is	Creating a comprehensive picture	Develop spatial orientation in a	Eurasia, size, location, borders,
	Europe	of the location of Hungary in the	real environment, on a map and	parts of the continent, Carpathian
		world, in Europe. The formulation	on the globe. Understanding the	Basin, neighbouring countries of
		of the actual geographical location	hierarchical relationships of the	Hungary, area, population,
		of Europe and Hungary.	geographic space.	nationalities of Hungary
			Creating a comprehensive	
			picture of the location of	
			Hungary in the world.	
			Observing the relationships	
			between reality and map	
			representation, discerning the	
			limitations of map	
			representation.	
			Understanding, interpreting,	
			use in the process of obtaining	
			information.	
			The application of elementary	
			map reading.	

5.	Climate zones on	Recognising the Earth's spherical	The relationship between	The ball-shape and tilt of the axis
	Earth	shape, the inclination of the sun's	structure and operation. The	of the Earth affects the
		rays and the climatic zones. An	influence of Earth's shape and	temperature. Sunrays reach the
		explanation of the alternation of	axial rotation on climatic zones.	surface at different angles.
		the seasons.	The significance of energy to	The temperature, the seasons
		Comparison of climatic zones.	Earth discretion.	and the direction of winds are
		Recognising climate change	Permanence and change	different inside the climate
		factors.	Identifying the effects that	zones.
			trigger change in phenomena	
			that can be observed in the	
			everyday environment.	
6.	Climatic factors	Detecting weather elements,	Exploring how climatic factors	Latitude, distance from the
		measurement. Recording	determine climatic elements.	coastline, altitude. Climatic
		measured data, representation.	The relationships between each	factors have different effects on
		Daily average temperature,	climate and the climatic	the temperature and precipitation.
		calculating daily and annual	elements.	Different climates are formed
		changes in temperature.		inside the climate zones due to
				the climatic factors.
7.	Climates of Europe,	Recognition of climate-modifying	Observing how the climate	Polar Zone, Temperate Zone:
	climates of Hungary	factors	changes inside a climate zone	Marine, Continental,
		Climate characterisation - learning	due to climatic factors. The	Mediterranean and Mountain

		algorithm and	differences that can be observed	climates, summer, winter
		use. Climate diagrams and	within smaller areas inside the	temperatures, changes in
		climatic map content	climate zones.	temperature, amount of
		reading, data value.		precipitation, when does it fall,
				vegetation, location of the
				climates
8.9.	Revision		Methods of learning in group	
			work design.	
			Establishing the skills required	
			to carry out observations.	
10.	Test			
	II. Plains of			
	Hungary			
11.	Formation of	Examining the formation of	Identification of explicitly	Lowland, formation of lowlands
	lowlands	lowlands - orderand timing	formulated information	by sinking and filling with sea
			scattered throughout the text.	deposits and river sediments.
			Explanation of elementary and	Rock oil and natural gas are
			general cause in the items of the	typical mineral resources.
			text.	Wind takes over the surface-
				work, forms loess and sand
				dunes. Plains, depressions and

				plateaus.
12.	Alföld – Great Plain	Creating a comprehensive picture	Developing elementary skills in	Formation by rivers and
		of the natural geographic features	map reading.	tributaries, fertile mud, sand and
		of our lowlands, its natural and	Identifying the individual and	loess areas.
		social resources, its economic	social impacts on the	
		processes, environmental status.	environmentand finding	
		Strengthen the attachment to the	solutions	
		country by knowing natural and	Some interpretations of the	
		socio-economic values.	change in the landscape as a	
		Developing national	result of man.	
		consciousness.	Recognising the beauty of the	
			environment, the sustainability	
			of human cultures and the	
			physical and psychological	
			health of those who live in it.	
13.	Climate, rivers,	Getting acquainted with the	Helping to organise	Climate: the highest amount of
	lakes and national	climate, bodies of water and	tools and knowledge of	sunshine, very hot summers, very
	parks of the Great	vegetation that is specific to the	algorithms.	cold winters, very little
	Plain	landscape.	Comparison, identification,	precipitation. Drought, mirage
		Reading of information from	distinction; finding differences,	Rivers: large amount of
		different charts, thematic maps.	identities.	sediment, great floods, protection

		Demonstration of the damaging	Classification of one or	against flooding is very
		effects of human activity through	two (more) according to its own	important. Irrigation canals.
		concrete examples.	criterion, given or started,	Wind-formed, oxbow and
			recognised in selection	artificial lakes. Mineral and hot
			according to the criteria.	thermal underground waters.
				Grasslands, national parks.
14.	Life on the Great	Orientation on the terrain and	Use of natural and artificial	Agriculture is the most important
	Plain	administrative map of our	(technical and constructed)	industry.
		country.	concepts in the environment.	Loess covered areas: fertile soil,
		Presentation of natural resources	Recognising the complexity and	wheat, sugar beet, sunflower,
		and socio-economic relations	inner relationships within	rice, vegetables, cows, pigs, and
		based on concrete examples.	systems.	poultry.
		Demonstration of the damaging	Relationship between structure	Vegetable growing area: red
		effects of human activity through	and operation	pepper, cabbage, cucumber,
		concrete examples.	Identifying the context using	tomatoes, green beans, peas -
		Examples of minerals and	concrete examples (food,	glasshouse production.
		industry contexts. Presentation of	clothing, tools).	Sand covered areas:
		the forms and effects of	Permanence and change	Delicious fruits and vegetables,
		agricultural pollution using	Some interpretations of the	preserved in the canning
		concrete examples	change in the landscape as a	factories.
			result of man.	Energy resources, chemical

			Environment and Sustainability	industry: rock oil, natural gas,
			The beauty of the environment,	thermal and atomic power
			the sustainability of human	stations.
			cultures and the physical and	Population, settlements:
			psychological health of those	Small farms and villages –
			who live in it	people live on farming.
				In towns people work in trade,
				transport and industry.
				Centralised road and railway
				network. Quite good quality
				roads.
15.	Kisalföld: Little	Orientation on the terrain and	Use of natural and artificial	Filled by the sediments of the
	Hungarian Plain	administrative map of our	(technical and constructed)	Danube and its tributaries.
		country.	concepts in the environment.	Pebbles, sand, clay and mud
		Knowing and practicing the	Recognising the complexity and	changed into very fertile soil.
		algorithm of landscaping using	inner relationships within	Climate: cooler summers, milder
		familiar landscapes. Reading	systems.	winters, more rain falls.
		information from different charts,	Orientation built and natural	Bodies of water: reefs in the
		thematic maps.	environment, basic field	Danube, Lake Fertő, national
		Comparison of natural and	knowledge.	park, thermal baths.
		cultural landscape. Presentation of	Relationship between structure	

		the impact of economic activity	and operation	
		on the community.	Identifying the context using	
		Comparison of the natural	concrete examples (food,	
		features of Kisalföld, Kiskunság	clothing, tools).	
		and Nagykunság. Presentation of	Permanence and change	
		natural resources and socio-	Some interpretations of the	
		economic relations based on	change in the landscape as a	
		concrete examples. Demonstration	result of man	
		of the damaging effects of human	Environment and Sustainability	
		activity using concrete examples.	The beauty of the environment,	
			the sustainability of human	
			cultures and the physical and	
			psychological health of those	
			who live in it	
16.	Life in the Little	Examples of minerals and	Use of natural and artificial	Wheat, barley, sugar beet, rape
	Hungarian Plain	industry contexts. Presentation of	(technical and constructed)	seed and fodder crops. Pigs,
		the forms and effects of	concepts in the environment.	poultry, meat industry, cows,
		agricultural pollution using	Recognising the complexity and	milk industry. Vegetable oil.
		concrete examples	inner relationships within	Industry: good location, many
			systems.	skilled labourers. Engineering,
			Orientation - man-made and	textile industry. One of the most

natural environment, basic field pop	pulated areas, modern, good
	ality roads and railways,
Relationship between structure trad	ditional waterway, the
and operation Dam	nube.
Identifying the context using	
concrete examples (food,	
clothing, tools).	
Permanence and change	
Some interpretations of the	
change in the landscape as a	
result of man	
Environment and Sustainability	
The beauty of the environment,	
the sustainability of human	
cultures and the physical and	
psychological health of those	
who live in it	
1718. Revision Methods of learning in group	
work design.	
Establishing the skills required	
to carry out observations.	

19.	Test			
	III. Mountains			
	and hills			
20.	Mountain formation	Observation of crease, casting and	Relationship between structure	Slow movements of the Earth's
		volcanic activity in simple model	and operation. Description of	crust. Fault, fold and volcanic
		experiments. Examples of the	surface formation processes,	mountains. Types of volcanoes:
		relationship between the various	presentation of examples and	Active, dormant, extinct.
		mountain formation processes.	recognition of the results of	Steps of volcanic activity:
			change processes.	Hot gases and steam, ash and
			Permanence and change.	stones, lava erupts.
			Recognize changes by	
			comparing two different states.	
21.	Surface-work of	Deepening the concept of balance	Relationship between structure	Internal forces, external forces-
	natural forces	and stability by learning the	and operation. Description of	destroy in mountains and build in
		balance of external and internal	the main processes of surface	lowlands. Tools of erosion:
		forces in the formation of today's	changes, presentation of	Temperature change, wind, ice,
		image of the Earth's surface.	examples, and recognition of	rainwater and rivers.
		Comparison of trimming and	the results of change processes.	Breaking-up, wind, ice,
		stopping, external and internal	Permanence and change.	rainwater, rivers transport, sand
		forces.	Recognising changes by	dune, loess, ice rivers-glaciers,
			comparing two different states.	U-shaped valley, moraine, reefs,

				islands, caves, limestone
				mountains, stalactites,
				stalagmites, columns.
22.	Rocks and minerals	To further develop geo-	Observations and basicskills	Three types of rocks: igneous,
		knowledge, develop information	required to perform simple	(andesite, basalt, granite)
		gathering and processing.	experiments.	sedimentary, (limestone,
		Finding, comparing and grouping	Developing methods of learning	sandstone, clay) metamorphic
		of easily identifiable properties of	in group work.	(marble, slate)
		some typical Hungarian rocks	Grouping of substances by	
			observation and	
			experimentation.	
			Establishing the concept of	
			energy, getting acquainted with	
			energy sources.	
23.	West-Hungarian	Orientation on the terrain and	3. Systems	Mountains and hill ranges:
	Borderland	administrative map of our	Use of natural and artificial	(Soproni, Kőszegi Mt, Zala
		country.	(technical and constructed)	Hills) Formation, rocks:
		Knowing and practicing the	concepts in the environment.	metamorphic crystalline, clay
		algorithm of landscaping using	Recognising the complexity and	Göcsej, unique ethnographical
		familiar landscapes. Reading of	inner relationships within	architecture, little differences in

		information from different charts,	systems.	temperate summer and winter
		thematic maps.	Orientation – man-made and	temperatures.
		Comparison of natural and	natural environment, basic field	The rainiest part of the country,
		cultural landscape. Presentation of	knowledge.	dense forests, thick grass
		the impact of economic activity	Relationship between structure	meadows, many streams.
		on the community.	and operation.	Farming: sugar beet, fodder
		Examples of relationships	Identifying the context using	plants, cows, milk, sugar
		between rocks properties and their	concrete examples (food,	industry.
		use.	clothing, tools).	Industry: textile, shoe and wood
		Presentation of natural resources	Permanence and change	industry, natural gas, rock oil,
		and socio-economic relations	Some interpretations of the	petroleum refinery, chemical
		based on concrete examples.	change in the landscape as a	industry. Tourism
		Demonstration of the damaging	result of man.	
		effects of human activity through	Environment and Sustainability	
		concrete examples.	The beauty of the environment,	
		Examples of minerals and	the sustainability of human	
		industry contexts. Presentation of	cultures and the physical and	
		the forms and effects of	psychological health of those	
		agricultural pollution using	who live in it	
		concrete examples		
24.	Transdanubian Hills	Orientation on the terrain and	Use of natural and artificial	Formation, rocks of the hills:

with the Mecsek	administrative map of our	(technical and constructed)	Pebbles, sand, loess
Mountains	country.	concepts in the environment.	Climate: Differences in W and E
	Knowing and practicing the	Recognising the complexity and	areas in temperature
	algorithm of landscaping using	inner relationships within	Mountains: Mecsek, Villányi
	familiar landscapes. Reading	systems.	limestone. Climate:
	information from different charts,	Orientation - man-made and	Mediterranean influence.
	thematic maps.	natural environment, basic field	Life of the hills: farming, animal
	Comparison of natural and	knowledge.	breeding, rye, potatoes, wheat,
	cultural landscape. Presentation of	Relationship between structure	corn, sugar beet, corn, oats, pigs,
	the impact of economic activity	and operation	poultry, mill and meat industry.
	on the community.	Identifying the context using	Mecsek: uranium ore, black coal,
	Examples of relationships	concrete examples (food,	mines are exhausted. Apples,
	between rocks properties and their	clothing, tools).	grapes, figs and almonds.
	use.	Permanence and change	
	Presentation of natural resources	Some interpretations of the	
	and socio-economic relations	change in the landscape as a	
	based on concrete examples.	result of man.	
	Demonstration of the damaging	Environment and Sustainability	
	effects of human activity through	The beauty of the environment,	
	concrete examples.	the sustainability of human	
	Examples of minerals and	cultures and the physical and	

		industry contexts. Presentation of	psychological health of those	
		the forms and effects of	who live in it	
		agricultural pollution using		
		concrete examples		
25.	Transdanubian	Orientation on the physical map	Explaining the causes of	Formation, rocks of the faulted
	Mountains	of our country.	differences between the rocks	mountains: granite, dolomite,
		Knowing and practicing the	found here.	limestone, andesite and basalt.
		algorithm of landscaping using	Examining the differences in	The surface is rounded off and
		familiar landscapes. Reading	climatic diagrams and thematic	has gentle slopes and flat
		information from different charts,	maps.	plateaus.
		thematic maps.	How the climate affects	Climate, rivers, vegetation:
			the density of the network of	Cooler summers, colder winters,
			rivers and streams. The effect	more rain, rare surface waters,
			of surface waters on the	caves, springs, karst water, dense
			limestone rocks.	deciduous forest. Balaton
				Highland N.P.
27.	Life in the	Comparison of natural and		Aluminium industry: bauxite,
	Transdanubian	cultural landscape. Presentation of	Use of natural and artificial	brown coal, thermal power
	Mountains	the impact of economic activity	(technical and constructed)	stations generate electricity. Lot
		on the community.	concepts in the environment.	of water is needed. Aluminium
		Examples of relationships	Recognising the complexity and	earth, aluminium factory,

		between rocks properties and their	inner relationships within	products: plates, wires, and
		use.	systems.	cables. Engineering, chemical
		Presentation of natural resources	Orientation - man-made and	and building industries. Porcelain
		and socio-economic relations	natural environment, basic field	factory in Herend. Agriculture is
		based on concrete examples.	knowledge.	in decline: potato, hemp, flax and
		Demonstrate the damaging effects	Relationship between structure	hops. Grapes and other fruits –
		of human activity through	and operation.	Balaton Highland
		concrete examples.	Identifying the context using	
		Examples of minerals and	concrete examples (food,	
		industry contexts. Presentation of	clothing, tools).	
		the forms and effects of	Permanence and change	
		agricultural pollution on concrete	Some interpretations of the	
		examples	change in the landscape as a	
			result of man.	
			Environment and Sustainability	
			The beauty of the environment,	
			the sustainability of human	
			cultures and the physical and	
			psychological health of people	
			living there.	
27.	North-Hungarian	Orientation on the terrain and the	Explaining the causes of	Highest mountain range:

	Mountains	administrative map of our	differences between lowlands	Smaller individual ranges,
		country.	and mountain ranges.	basins, volcanic and limestone
		Knowing and practicing the	Examining the differences in	mountains. Mátra: Kékes, geyser
		algorithm of landscaping with	climatic diagrams and thematic	cones, carbonic acid springs.
		familiar landscapes. Reading	maps.	Bükk, Aggteleki Karst: Baradla
		information from different charts,	Explaining the differences	cave system, World Heritage
		thematic maps.	between the hydrography of the	Sites, Bükk: spectacular plateaus
			volcanic and limestone	Climate: coldest area, snow
			mountains and explaining the	remains for a long time, annual
			natural plant cover zone	average temperature on the
			change.	highest peaks 6°C.
			Presenting natural resources	Rivers: flow very fast and carry a
			and socio-economic	lot of debris. Spas, medicinal
			relationships through specific	waters.
			examples.	Vegetation: big forests, national
			The proof of human activity's	parks
			damaging effects through	
			concrete examples.	
28.	Life in the North-	Comparison of natural and	Use of natural and artificial	Mineral resources: brown coal,
	Hungarian	cultural landscape. Presentation of	(technical and constructed)	lignite, iron ore mines now
	Mountains	the impact of economic activity	concepts in the environment.	closed. Industries: rock oil,

		on the community.	Recognising the complexity and	natural gas arrive – chemical
		Examples of relationships	inner relationships of systems.	industry. Products: petrol, gas
		between rocks properties and their	Man-made and natural	oil, paint and plastic. Thermal
		use.	environment, basic field	power stations. Engineering
		Comparison of the Northern	knowledge.	industry, building industry.
		Mountain Range and the	Relationship between structure	Farming: fruit and grapes in
		Transdanubian Mountain Range	and operation.	Tokaj Hegyalja.
		according to given criteria.	Identifying the context using	
		Presentation of natural resources	concrete examples (food,	
		and socio-economic relations	clothing, tools).	
		based on concrete examples.	Permanence and change	
		Demonstration of the damaging	Some interpretations of the	
		effects of human activity through	change in the landscape as a	
		concrete examples.	result of man.	
		Examples of minerals and	Environment and sustainability:	
		industry contexts. Presentation of	The beauty of the environment,	
		the forms and effects of	the sustainability of human	
		agricultural pollution using	cultures and the physical and	
		concrete examples.	psychological health of those	
			who live in it	
29.	Supplementary			Industrial pollution: 3 categories:

reading:		- mining, smelting,
The consequences		- use raw materials to
of human economic		produce consumer goods,
activity		- provide services for
		persons and groups.
		Large polluters: chemicals,
		pesticides, oil refining, metal
		smelting, iron and steel, food
		processing, energy waste
		products, textile, leather, paint,
		plastics, medicine and paper
		industries.
		Agricultural pollution: affects
		climate change, deforestation,
		water and air pollution, genetic
		engineering, irrigation, soil
		degradation and waste.
		Application of ammonia, nitrate
		and phosphor.
		Release of CO2, greenhouse
		gases, deforestation, less water

			vapour, over-irrigation, under- irrigation, increased salinity.Chemicals leach into the soil.Degradation of microbial community of soil, plastic sheets
			cause problems for shellfish in oceans, plastic degradation takes a long time.
30.	<i>Supplementary</i> <i>reading</i> : National parks of Hungary		10 National Parks: Protected geological formations, Protected animals, Protected plants, Demonstration sites.
3132.	Revision	Methods of learning in group work. Establishing the skills required to carry out observations.	
33.	Test		