

# **Syllabus for Nature and Science**

**Grade 4**

**2022-2023**

**Number of Weeks: 36**

**Number of Lessons: 72**

**Teacher: Nagy-Turcsányi Ágnes**

LESSON	TOPIC	NEW WORDS, EXPRESSIONS	OBJECTIVES, ACTIVITIES	DEMONSTRATION (visual aids, illustrations, necessary materials)
1.	GENERAL REVISION: PLANTS, ANIMALS, HUMANS,		Playful activities: (guessing games, puzzles, fill the gaps, etc.) Different exercises revising basic knowledge.	photocopies, pictures, word cards  worksheets
2.	GENERAL REVISION: BASIC PROCESSES, BASIC GEOGRAPHY		Playful activities: (guessing games, puzzles, fill the gaps, etc.) Different exercises revising basic knowledge.	photocopies, pictures, word cards  worksheets
3.	REVISION TEST  INTRODUCTION OF THE NEW BOOK		30 min test on some basic knowledge learnt last year. Learning the structure of the book; Reading the introduction part; Looking through the contents; Classroom rules, necessary equipment	Test sheets
4.	<u>ANIMALS AROUND</u> <u>OUR HOME</u> ANIMALS IN THE GARDEN, IN THE FIELD	dead, die, food cycle, habitat, symbiosis	Learning why and how plants and animals need each other. Understanding what symbiosis and food cycle mean.  Activity part: Page 7 Cutout page A-1	scissors, glue, pencil, coloured pencils, illustrations of the course book,

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LESSON	TOPIC	NEW WORDS, EXPRESSIONS	OBJECTIVES, ACTIVITIES	DEMONSTRATION (visual aids, illustrations, necessary materials)
<b>5-6.</b>	<b>THE COMMON VOLE</b>	badger, best known, <b>bird of prey</b> , <b>burrow</b> , <b>common vole</b> , <b>damage</b> , <b>dig</b> , <b>enemy</b> , field vole, footprint, <b>herbivore</b> , member, owl, <b>pup</b> , <b>rodent</b> , several times, <b>social group</b> , <b>solitary</b> , tree bark, water vole	Learning about the common vole. Why does a common vole belong to the group of mammals? Learning the important features of the common vole. Rodents' characteristics. Collecting some more rodents such as mice, rats, hamsters, rabbits, guinea pigs, etc.  Activity part: Page 9	illustrations of the course book, pictures, a pencil, coloured pencils,
<b>7-8.</b>	<b>THE RED FOX</b>	arctic fox, bank, blind, <b>brush</b> , <b>bushy</b> , <b>carnivore</b> , <b>cub</b> , desert fox, <b>fox earth</b> , front foot, grey fox, hind foot, litter, <b>nocturnal</b> , <b>reynard</b> , rubbish dump, <b>sense of smell</b> , trail pattern, <b>vixen</b>	Learning about the red fox. Why does a fox belong to the group of mammals? Learning the important features of the red fox. Comparing the fox to the common vole. (place of living, eating habits, size, etc...)  Activity part: Page 11	illustrations of the course book, pictures, a pencil, coloured pencils,

<b>9-10.</b>	<b>THE BLACKBIRD</b>	<b>blackbird, blotch, bluish,</b> communicate, <b>golden yellow,</b> <b>melodic,</b> mistle thrush, <b>omnivore,</b> shrub, territory	Learning about the blackbird. Why does a blackbird belong to the group of birds? Learning the important features of the blackbird.  Activity part: Page 13	illustrations of the course book, pictures, a pencil, coloured pencils,
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<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>11-12.</b>	<b>THE CRUCIAN CARP</b>	<b>bony fish,</b> carp, carps, <b>crucian carp,</b> <b>fresh water,</b> medium-sized, pond, pressure, scull, <b>spawn,</b> stability, <b>swim bladder,</b> vibration	Learning about the crucian carp. Why does a crucian carp belong to the group of fish? Learning the important features of the crucian carp and the body-parts of a fish.  Activity part: Page: 15	illustrations of the course book, pictures, a pencil, coloured pencils
<b>13-14.</b>	<b>THE TREE FROG</b>	adhesive disc, <b>adult, amphibians,</b> <b>bulging,</b> bury, croak, depend on sg., environment, <b>frog egg, froglet (like a frog),</b> <b>hibernate,</b> jelly, <b>life cycle,</b> <b>moist,</b> salamander, <b>stage,</b> sticky, <b>tadpole (like a fish),</b> toads, <b>webbed toe</b>	Learning about the tree frog. Why does a tree frog belong to the group of amphibians? Learning the important features of the tree frog. Understanding and learning the frog's lifecycle.  Activity part: Page 17	illustrations of the course book, pictures, a pencil, coloured pencils

<b>15-16.</b>	<b>THE HONEY BEE</b>	<b>abdomen, air-tube system,</b> attack, bumble bee, <b>collect, drone, exoskeleton, hive, jointed leg,</b> killer bee, lazy, <b>stinger, sting, store,</b> take care of sy., <b>thorax, worker</b>	Learning about the honey bee. Why does a honey bee belong to the group of insects and invertebrates? Learning the important features of the honey bee.  Activity part: Page 19	illustrations of the course book, pictures, a pencil, coloured pencils
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<b>17.</b>	<b>ANIMALS HELP HUMANS</b>	<b>cotton,</b> entertainment, especially, <b>fibre,</b> guard, hide, <b>leather, look after,</b> reason, <b>silk,</b> tame, <b>useful, wax, wool</b>	Learning about why animals are important to human beings, how they can help humans and make humans' life easier and better.  Activity part: Page 21 - 22	pictures, illustrations of the course book, a pencil
<b>18.</b>	<b>LESSON 1 TO USE FREELY</b>			
<b>19.</b>	<b>REVISION: ANIMALS</b>		Playful activities (puzzles, guessing games, fill the gaps, etc.)  Revision: Page 26 - 27	pictures, illustrations of the course book, photocopies

<b>20.</b>	<b>TEST 1 ANIMALS</b>			
<b>21.</b>	<b><u>HUMANS</u> SKELETAL SYSTEM</b>	<b>attach, backbone, blood cell, cartilage, cartilaginous, femur, thigh bone, fuse together, joint, organ, pelvis, ribcage, skeletal system, skull, slightly, spinal cord, wide</b>	Learning the basic things about the skeleton, bones and joints. Understanding what their functions are in our body, why they are important parts.  Activity part: Page 30 - 31	pictures, illustrations of the course book, a pencil

<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>22.</b>	<b>MUSCULAR SYSTEM</b>	<b>blink, contract, involuntary, movement, muscle, muscular system, nerve, over, relax, signal, tendon, voluntary (ily)</b>	Learning the basic things about how the muscles work and move. Comparing the movements of different animals (e.g. a horse, a bird, a frog) to the human's movements.  Activity part: Page 33	illustrations of the course book, a pencil, coloured pencils
<b>23.</b>	<b>THE HUMAN BODY LANGUAGE</b>	<b>besides, body language, emotion, feeling, express, facial expression, gesture, internal, non-verbal communication, verbal communication</b>	Talking and learning about why body language is important in human communication. Animals cannot talk, they use body language to communicate. Learning about dogs' body language.  Activity part: Page 35	illustrations of the course book, pictures of people showing different emotions, a pencil, coloured pencils

<b>24.</b>	<b>TEETH</b>	<b>bite, bumpy, canine, chew, edge, grind, incisor, jaw, milk teeth, molar, permanent teeth, pointed, tear,</b> wisdom tooth	Learning about our teeth. Why are they important to us? Learning about the different types of teeth and understanding the functions of each type.  Activity part: Page 36 - 37	a mirror, an apple, a croissant, soft food (pureed baby food, pure yoghurt), illustrations of the course book, pictures, a pencil, coloured pencils
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<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>25-26.</b>	<b>HEALTHY BODY</b>	<b>amount, balanced diet, carbohydrate, daily routine,</b> dairy product, develop, gear, <b>grains, healthy lifestyle, mineral,</b> nail, nutritious, proper, <b>protein,</b> regularly, snack	Learning about what healthy lifestyle means. What everybody should do in order to live a healthy life. Discussing what everyone should eat to keep the body healthy and learning about the healthy eating pyramid and the different food groups.  Activity part: Page: 39	illustration of the course book, pictures of different foods, a pencil, coloured pencils
<b>27.</b>	<b>HEALTHY MIND</b>	bully, call names, character, <b>community,</b> count on s.body, <b>habit,</b> inappropriate, interest, play equipment, <b>relationship, relative, secure,</b> selfish, share	Learning about the importance of having healthy and good habits, and of being a part of a family and a community.  Activity part: Page 41	illustrations of the course book, a pencil, coloured pencils

<b>28.</b>	<b>SICK BODY</b>	<b>addictive, cancer, chickenpox, digest, digestive system, disease, droplet spread, drug, flu, infect, infection, infectious, measles, medicine, microbe, nicotine, poison, prevent, rash, silly, swallow, tobacco, vaccination</b>	Learning what can cause diseases, the signs of a disease. Reading about some prevention rules. Learning about bad habits (smoking, alcohol, drugs) and their effects on human's body.  Activity part: Page 43	illustrations of the course book, pictures, pencil
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<b>29.</b>	<b>NATURAL REMEDIES: HERBS</b>	<b>anise, chamomile, cinnamon, clove, herb, lavender, lemon balm, mint, natural remedy, potpourri, rosemary, sage</b>	Learning about special plants: herbs. Talking about why herbs are special and useful. Discussing how the different herbs can help people.  Activity part: Page 45	different herbs, a piece of cloth, a piece of ribbon, a pencil
<b>30.</b>	<b>LESSON 2 TO USE FREELY</b>			
<b>31.</b>	<b>LESSON 3 TO USE FREELY</b>			



<b>32.</b>	<b>REVISION: HUMANS</b>		Playful activities: (guessing games, puzzles, fill the gaps, etc.)  Revision: Page 47 - 49	photocopies, pictures, word cards
<b>33.</b>	<b>TEST 2 HUMANS</b>			

<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>34.</b>	<b><u>PLANTS</u></b>  <b>PLANTS NEED...</b>	<b>environmental conditions, heat, keep, light, use, warmth</b>	Start with the Activity part: Plant the seeds following the instructions in What to do 1-15 on Page 52. While teaching the unit, examine the cups every day and do Tasks to do 1. If you planted wheat seeds, they will grow very fast, so you can do What to do 12, 13 in a couple of days. Do not forget to do What to do 15, and after a week Tasks to do 2-3.  Activity part: Page 52 - 53	marker, four plastic margarine tubs, garden and sandy soil, two paper towels, grass or wheat seeds, two plastic bags with ties, a hand lens, water, two shades of green pencils

<b>35.</b>	<b>PLANT PARTS: ROOTS, STEMS, LEAVES</b>	<b>carbon-dioxide, chlorophyll, deciduous, evergreen, inside, oxygen, photosynthesis, release, stalk</b>	Learning about the functions of roots, stems and leaves. Observation, examination of a leaf. Learning the process how green plants make sugar and oxygen; why they are important for the living things on Earth.  Activity part: Page 54 - 55	a real leaf or a picture of a leaf, pencil, coloured pencils, illustrations of the course book
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<b>36.</b>	<b>PLANT PARTS: FLOWERS</b>	<b>bud, carry, combine, egg, female, form, fertilisation, form, male, petal, pistil, pollen, produce, sepal, stamen</b>	Observation, examination of a flower by taking it apart. Learning the process of fertilisation. The functions of the different flower parts.  Activity part: Page 56 - 57	a real flower or a picture of a flower, illustrations of the course book, a pencil, coloured pencils,
<b>37.</b>	<b>PLANT PARTS: FRUITS</b>	<b>fruit, fewest, protect, proverb</b>	Observation, examination of different fruits and seeds. Learning the function of a fruit.  Activity part: Page 58 -59 Cutout page A-2	five kinds of fruit, an apple or a pear, a peanut, a plum, a grape or a green-pepper, a pencil, glue, scissors

<b>38.</b>	<b>PLANT PARTS: SEEDS</b>	bean, <b>bulb</b> , corn, embryo, plant, <b>seedling</b> , size, snowdrop, <b>sprout</b> , wheat	Learning about the lifecycle of plants. Examination of different seeds.  Activity part: Page 60 - 61	bean, peanut, corn, wheat, flower, grass seeds, a pencil, coloured pencils, illustrations of the course book
<b>39.</b>	<b>PLANTS CAN STORE FOOD</b>	<b>beet, cauliflower, cucumber, green-pepper, onion, potato, spinach, tomato</b>	Classifying plants according to where they store food.  Activity part: Page 62 - 63 Cutout page B-1	scissors, glue, carrot, potato, cabbage, cauliflower, tomato, bean plants, a pencil, coloured pencils,

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<b>40.</b>	<b>PLANTS HELP PEOPLE: BREAD</b>	dough, <b>ingredient, kneading</b> , loaf, mould, <b>moulding</b> , nowadays, oven, rise, <b>rising</b> , rye, stretchy, <b>wholegrain, yeast</b>	Bread is people's most important food. It is eaten in different forms all over the world. Learning about how bread is made in bakeries.  Activity part: Page 65 Cutout page B-2	illustrations of the course book, a pencil, scissors, glue
<b>41.</b>	<b>PLANTS HELP PEOPLE: PAPER</b>	<b>cellulose</b> , chemical, chip, <b>chipping</b> , <b>consists of, debarking</b> , drain away, filter, <b>filtering</b> , fine, flatten, <b>flattening</b> , log, pulp, <b>pulping</b> , remove	Learning about how paper is made in paper factories. Discussing why recycling paper is very important nowadays.  Activity part: Page 67	illustrations of the course book, a pencil,

<b>42.</b>	<b>LESSON 4 TO USE FREELY</b>			
<b>43.</b>	<b>LESSON 5 TO USE FREELY</b>			
<b>44.</b>	<b>REVISION: PLANTS</b>		Playful activities (puzzles, guessing games, fill the gaps, etc.)  Revision: Page 69 - 71	pictures, illustrations of the course book, photocopies
<b>45.</b>	<b>TEST 3 PLANTS</b>			

<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>46.</b>	<b><u>BASIC</u> GEOGRAPHY</b> <b>WHERE IS IT? HOW FAR IS IT?</b>	always, belong to, <b>compare to</b> , corridor, <b>distance, estimate,</b> <b>exact(ly), express(ion), locate,</b> <b>position</b>	Measuring distances, locating positions.  Activity part: Page 74 - 75	illustrations of the course book, a measuring tape, a meter-stick, a pencil

<b>47.</b>	<b>DIRECTIONS, POINTS OF THE COMPASS</b>	<b>cardinal points, compass, direction, East, intercardinal points, North, Northeast, Northwest, South, Southeast, Southwest, West</b>	Revising the four cardinal points of the compass. Learning the intercardinal points of the compass.  Activity part: Page 76 - 77	illustrations of the course book, a compass, a pencil
<b>48.</b>	<b>COMPASS</b>	<b>arrow, device, float, horizontal, magnetized, mark(ed), needle, post, print(ed), swing</b>	Learning about what a compass is and how it works. Making a compass.  Activity part: Page 78 - 79	a compass, a piece of paper, a needle, a piece of cork or other materials, a bowl with water, a pencil
<b>49.</b>	<b>MAKING OUTLINES AND GROUND PLANS</b>	<b>ground plan, original, outline, reality, reduce in size, scale number, scale of reduction, top-view</b>	Learning to make outlines and ground plans; reducing bigger objects in size.  Activity part: Page 80 -81	a big piece of wrapping paper, a ruler, small objects, a pencil

<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>50.</b>	<b>MAPS</b>	<b>area, artificial, canal, continent, elevation number, farthest, features, island, natural, region, relief map, sea level, surface, topographical map</b>	Learning about the relief map. Learning the signs, the colours and what they symbolize on the map.  Activity part: Page 83	the relief map of Hungary, a pencil, coloured pencils,

<b>51.</b>	<b>OUR COUNTRY: HUNGARY</b>	<b>anthem, arms, county, faithfulness, hope, national, official, population, strength, stripe, symbol, symbolize</b>	Learning about our home country: Hungary; the symbols of our country.  Activity part: Page 85	the county map of Hungary, a pencil, coloured pencils
<b>52.</b>	<b>THE BIG AREAS OF HUNGARY</b>	<b>Great Hungarian Plain, Little Hungarian Plain, North Hungarian Mountains, Transdanubian Hills with the Mecsek Mountains, Transdanubian Mountains, West-Hungarian Borderland</b>	Learning the big regions of Hungary. Locating the areas and being able to find and identify them on the relief map of Hungary.  Activity part: Page 86 - 87	the relief map of Hungary, illustrations of the course book, a pencil, coloured pencils

<b>53.</b>	<b>TRANSPORT</b>	<b>abroad, ferry, goods, means of transport, public transport, railway, route, throughout, tram, trolleybus, van, lorry, truck (US), vehicle</b>	Learning about transport and vehicles. Understanding why a country needs a transport system and why public transport is important in a city.  Activity part: Page 88 - 89	illustrations of the course book, pictures of vehicles, a pencil, coloured pencils
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<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>54.</b>	<b>LESSON 6 TO USE FREELY</b>			

<b>55.</b>	<b>LESSON 7 TO USE FREELY</b>			
<b>56.</b>	<b>REVISION: BASIC GEOGRAPHY</b>		Playful activities (puzzles, guessing games, fill the gaps, etc.)  Revision: Page 92 - 95	photocopies, pictures, word cards, sentence cards, etc.
<b>57.</b>	<b>TEST 4 BASIC GEOGRAPHY</b>			
<b>58.</b>	<b><u>BASIC PROCESSES</u>  WEATHER</b>	breeze, bump into, droplet, <b>element</b> , gentle, give off, heat energy, join together, <b>precipitation</b> , sideways, speed, <b>sun's</b> <b>radiation, weather, weather</b> <b>forecast</b>	Learning about the weather and its elements.  Activity part: Page 99	illustration of the course book, a pencil, coloured pencils

<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>59.</b>	<b>PRECIPITATION</b>	<b>crystal, hail, hold, piece, sleet, too</b>	Learning how precipitation is formed. Learning the different types of precipitation.	pictures, a pencil, coloured pencils

			Activity part: Page 100 - 101	
<b>60.</b>	<b>THE WATER CYCLE</b>	<b>reservoir, store, storage tank, the water cycle, water tower</b>	<p>Learning the water cycle. Understanding why living things need water and why we always have water on Earth. Earth is a wonderful natural machine that provides us water if we take good care of it.</p> <p>Activity part: Page 102 - 103</p>	<p>illustration of the course book, a pencil, coloured pencils</p>
<b>61.</b>	<b>RECYCLING</b>	<b>compost, composting, fertiliser, fix, laundry, organic, plenty of, pollution, precious, recycling, waste</b>	<p>Learning about the different kinds of pollutions which ruin our Earth and our lives. Talking about and discussing what people and we should and can do to protect our environment and nature.</p> <p>Activity part: Page 105</p>	<p>illustrations of the course book, a pencil</p>



LESSON	TOPIC	NEW WORDS, EXPRESSIONS	OBJECTIVES, ACTIVITIES	DEMONSTRATION (visual aids, illustrations, necessary materials)
<b>62-63.</b>	<b>THE STARS</b>	<b>astronomy, constellation,</b> discovery, <b>humankind, instrument, invention,</b> legend, lensmaker, mythological creature, <b>observe,</b> pattern, physicist, pole, shaman, <b>telescope, Ursa Major,</b> wain, <b>zodiac sign</b>	Learning about stars and constellations, legend of Göncöl. Talking about Galileo Galilei's great invention, the telescope.  Activity part: Page 107	pictures, illustrations of the course book, a pencil
<b>64-65.</b>	<b>THE SEASONS</b>	attention, balance, celebrate, church, <b>custom,</b> history, Midsummer, <b>revolution, revolve,</b> solstice, <b>tradition,</b> war of independence	Learning about the seasons. Understanding why the changing of seasons was important in people's life in the past. Learning about some special days.  Activity part: Page 108 - 109	a pencil
<b>66-67.</b>	<b>LIFE IN THE PAST</b>	accurate, <b>agriculture,</b> blend in, <b>breeding cycle,</b> crop, <b>First Quarter, flood, floodplain, Full Moon,</b> game, grey cattle, <b>Last Quarter,</b> long-wooled sheep, mangalica pig, mud house, <b>New Moon,</b> orchard, ox(en), <b>phase, progress of time,</b> reed, <b>regulation,</b> satellite, vineyard	Learning the four main phases of the Moon. Learning about how people lived in Hungary in the past. Understanding how and why their life depended on the changes of nature. Learning about flood land farming and some special Hungarian animals.  Activity part: Page 111	pictures, illustrations of the course book, a pencil

<b>LESSON</b>	<b>TOPIC</b>	<b>NEW WORDS, EXPRESSIONS</b>	<b>OBJECTIVES, ACTIVITIES</b>	<b>DEMONSTRATION</b> (visual aids, illustrations, necessary materials)
<b>68.</b>	<b>LESSON 8 TO USE FREELY</b>			
<b>69.</b>	<b>REVISION: BASIC PROCESSES</b>		Playful activities (puzzles, guessing games, fill the gaps, etc.)  Revision: Page 114 - 117	photocopies, pictures, word cards, etc.
<b>70.</b>	<b>TEST 3 BASIC PROCESSES</b>			
<b>71-72.</b>	<b>GENERAL REVISION:  ANIMALS, HUMANS, PLANTS, BASIC GEOGRAPHY, BASIC PROCESSES</b>		Playful activities: (guessing games, puzzles, fill the gaps, etc.)	photocopies, pictures, word cards