NAME OF	OVERVIEW (short description)	BASIC PRINCIPLES (including connection to outdoor	BENEFITS/ EVIDENCE	TIPS (helpful hints how to translate the action	INFORMATION	EXAMPLE OF	Link to related case
MODEL/METHOD/ APPROACH		learning)		into behavioural change)	SOURCES (www, literature, articles)	PROVIDER of posted model/method	study?
Audio- tours/Geocaching	Audio-Tours or Geocaching connect a classical field trip or hike with a certain topic, be it cultural, historical, political, scientific or about the flora and fauna of a region. It engages students through using new technologies such as smartphones or GPS- device to distribute information.	 Students are equipped with the technology and explore the place (→ Place-based-Learning) on their own/in small groups. 2. Whereas Audio-Tours are directly giving knowledge through small podcasts to the listeners, Geocaching involves the learners like in a scavenger hunt to gather certain information. 	one of the main benefits is that it engages the students physically. It is assumed, that the students interest in such tours is higher	It can be informal learning or, if done with a class of students, non-formal. When used as a non-formal teaching method, an evaluation and presentation of the findings makes sense, as well as linking it to school subjects.	for Schools and Communities	In Romania: A cultural- historical Audio-Hiking Path of a non-formal Education Center: http://audiowanderweg.seli gstadt.ro	No
4MAT model	4MAT is a process for delivering instruction in a way that appeals to all types of learners and engages, informs, allows for practice and creative use of material learned within each lesson.	It is a 4 stage learing model : meaning - concepts - skills adaptation. It can be use in any type of the program, icluding outdoor education.	Very well explained in the video http://www.aboutlearning.com/index.php?op tion=com_content&view=article&id=210&Ite mid=110		more information on http://www.aboutlear ning.com/		No
5 E's Instructional Model	Consists of 5 phases, which have a specific function, contibuting to the teachers coherent instruction and the the students' formulation of scientific knowledge, attitudes and skills.	The five phases of the BSCS 5E Instructional Model are designed to facilitate the process of conceptual change. The use of this model brings coherence to different teaching strategies, provides connections among educational activities, and helps science teachers make decisions about interactions with students. Each phase of the model and a short phrase to indicate its purpose from a student perspective are: Engagement - students' prior knowledge accessed and interest engaged in the phenomenon. Exploration - students participate in an	BSCS programs incorporate a conceptual framework that is clear, progressive and integrated with many pedagogical strategies. The concepts build in a way that students understand. The activities, investigations, and readings engage students in a way that allows them to "have fun" while learning, opening them up to the natural world around them. There is evidence that shows that when people are	Nicola Kitchen, Faculty of Education, University of Cumbria. This First Class resource will be taking a close look at planning for challenge and progression in science learning. The University of Cumbria 'First Class' guides are designed to be user friendly quick reference aids to key areas of practice. They aim to help you as a new teacher to sustain a questioning approach, to continue to develop your pedagogy, and to make a contribution to raising	https://portfolio.pebb lepad.co.uk/cumbria /viewasset.aspx?oid =494359&type=web folio&pageoid=4953 54	https://portfolic.pebblepad .co.uk/cumbria/viewasset. aspx?oid=494359&type=w ebfolio&pageoid=495354	YES-OPAL AIR QUALITY SURVEY
Earth Education IAA model	Comprehensive programs using the original methodology, forthcoming in the International Centre in USA and distributed worldwide. Earth education is the process of helping people to live more harmoniously with the natural world by Understanding how ecosystems work Developing a long lasting love and respect for the Earth and its life-forms Reducing their own impact on its natural resources	An Earth Education Programme is a skillfully crafted, sequential learning experience designed to hely participants live more harmoniuosly and joyously with the earth and all its life. There are a number of important characteristics which define an Earth Education programme - such as conceptual activities (conceptual path, conceptual Encounters), work with IAA model, The most important parts take place in nature; Earth Walks - a number of activities connected to the "sharpening of the senses," etc.	CZ: Eartkeepers in the Czech Republic: Experience from the implementation process of an earth educational programme - see http://www.envigogika.cuni.cz/index.php/En vigogika/article/view/397/pdf_397	AN EARTH EDUCATION PROGRAMME is carefully crafted series of learning experiences which Motivate and pull the learners in Emphasise major ecological understandings Involve exciting tasks that are both 'hands on and 'minds on' Weave activities together with a clear, easily remembered formula to aid comprehension and retention Transfer the learning tasks to both school	Matre, S. van. (1999). Earth Education a new beginning. Greenville: The Institute for Earth Education. http://www.earthed.crg.uk/resources/index.html	CZ: SEV Český Ráj, program Strážci Żemě (Earth keepers) CZ: some activities used in residential programs of Jizerka environmental centre UK: Bishops wood centre	No
Education for Sustainable Development	The United Nations has popularized citizens actions and shifted environmental educationers practice with the concept "Education on Sustainable Development". It means in its whole variety teaching for sustainability, recognizing education as an essential tool for sustainable development.	development and to identify the problems of non- sustainable development. This means drawing conclusions on environmental, economic and social developments in their interdependence, on the basis of analyses of the present and studies of the future, and then using these conclusions to take decisions and understand them before implementing them individually,			De Haan, Prof. Dr. Gerhard and the Transfer-21 Programme's 'Quality and Competences' working group: Guide Education fo		No
Enquiry based learning	Observation, experimentaion and teacher- guided constructure by the child of his/her own knowledge	Essential Features: 1 Learner engages in scientifically orientated questions. 2 Learner gives priority to evidence in responding to questions. 3 Learner formulates explanations from evidence. 4 Learner connects explanations to scientific knowledge. 5 Learner communicates and justifies explanations. There is significant opportunity for this model to work outdoors, as the 5 aspects can be lead by the teacher in varying amounts and or lead by the materials and environment in varying amounts.	The focus is on student inquiry as the driving force for learning. Teaching is organised around questions and problems in a highly student-centred inquiry process. Through Inquiry based learning, students learn through and about scientific inquiry rather than by teachers presenting scientific content knowledge. This method supports thinkers and helps their minds to develop so that they can approach new learning creatively and energetically	By focussing on topics and subject matter that allow students to collect evidence about their personal impact on the environment and ways in which they can reduce this, students engage with the process. By providing skills which aid making a change and feedback from monitoring this will drive the short term learnig into a longer term behavioural change		http://www.pathwayuk.org. uk/what-is-ibse.html	YES-Climate change case study
Flow learning model		Awaken Enthusiasm 2. Focus Attention3. Experience Directly 4. Share Inspiration. A Flow Learning session begins with lively, playful activities that awaken the students' energy and enthusiasm. The second series of activities challenge the students to focus their attention through their senses of touch, hearing, and sight. The third stare offers activities that immerse the students in	CZ: Some outdoor providers use the activities in their programe, but usually separately, not whole model. They are very popular and usually very appreciated. We have also experiance with whole program run according the flow-learning model with evaluation data. This article.	Benefits: Flow learing chart http://www.sharingnature.com/flow-learning/flow learning-chart.php	Joseph Cornell: Sharing nature with children http://www.sharingn ature.com/resources /books-cds.php	CZ - Sdružení TEREZA, Les je přítel (programme run according to Cornell model with evaluation)	No
	urban contest to develop a bond with nature and learn from it in a way modern society is not used to.	Exploration is the key strategy to the method. Childrer are left free to explore and learn at their own pace from the inputs the environment provides. Explanation and comparison are always available when asked for and provided for more organized activities. Elaboration of the experiences made needs also to be a daily routine and can be done through circles and rituals in which children were asked to speak or draw the vbes of wheir day or to thank different natural elements for the	go along with the traditional one and gives them the possibility to choose a more innovative way of schooling focused on a more sustainable and eco-compatible lifestyle.	pace trying to be a guide in the discovery process.	osco.it/ http://www.montess oriinpratica.it/ http://waldkindergart en.ch/	http://www.fondazionevilla ghigi.it/ Fondazione Villa Ghigi	Yes - Forest kindergarten
Forest school	many days at a different location than the school and building on the local environmental characeristics. Field experience is gained through active cooperation and interaction of	Forest school is the best location for EE. Its aim is to discover nature in many different ways, in order to raise sensitivity and ecological approach in children towards the state of natural environment and to create proper environmental attitudes, behaviour and values. Forest school enables children to observe human interventions and their environmental impacts. The main source and way of learning is observation, experimenting, personal experience, and games based on experience. The learning process is primarily based on cooperative learning techniques, employing project method. Learning	Experience based. Children face real problems during problem solving. Since a class of children takes part and their are usually at a similar level of knowledge, it makes work easier for them. No time needed for team building, for example. In Hungary, it takes place during school term, so more time to get prepared and follow up is more efficient.	In a forest school children can experience environmentally aware way of living which they can accept, take home and integrate into their every day life. It is also an important venue for socialization.	Lehoczky János: http://www.ofi.hu/tud astar/lepesk- okoiskola-fele/bilku- rolandne-erdei	Lehoczky János	Yes - Wooded meadow HU

cities with a different focus: Equal payment, Food and nutrition, Consumerism, Global justice.	The principle behind is exploring the power of every individual as a consumer. 2. The students and other participants in the Guided Tours on Global Consumption look behind the facade of favourite products, brands or shops and develop a more critical thinking. 3. After and during the tour, alternatives and solutions are discussed	Through dealing directly with their favourite brands or products, students develop a sense of critical thinking on global and social processes like capitalism, globalisation, climate change, Peak Oil etc. There is a strong link to their own daily life which makes the transfer from knowledge into daily actions more easy.	The best is, to do this tours in your own city or a neighboring town. If no such initiative exists in your place, you can also create such a tour in a project with your students!	eft_english- version_klein.pdf;	http://www.weltbewusst.or g/stadtrundgang- bundesweit/	No
target groups based on communication the "main idea" of the place. Heritage interpretation is "an educational activity which aims to reveal meanings and relationships through	development within 4-5 subtopics, connecting with a specific site; applicable to cross-country programs, exhibitions etc.		development within 4-5 subtopics, connecting with a specific site; applicable to cross-country programs, exhibitions etc.	HAM, Sam H. Environmental interpretation: a practical guide for people with big ideas and small	Jizerské hory, interpretative 3-day long program for children KOŘENY (ROOTS)	No
take care of the world by understanding where they live and taking action in their own backyards and communities.	participants in the life of their communities. Successful projects demonstrate many of the following characteristics: Learning takes students out of the classroom and into the community and natural environment.	http://www.peecworks.org/PEEC/Benefits_o f_PBE-PEEC_2008_web.pdf	questions such as, "Where am 1? What is the natural and social history of this place? How does this place fit into the larger world?" Project based learning tied to place emphasis, links to ecological, social and economic issues, 1.The	http://www.skolapro zivot.cz/mzu	pro udržitelný život, Czech Republic(http://www.skolaprozivot.c z/mzu)	yes - Škola pro udržitelný život - "School for sustainable life
about important subjects while promoting	find answers that are sustainable and acceptable both by the community and the environment. By means of debate and democratic decision making students learn to	interested and involved in the decision making process.	term it is important that the decision making	t.it/	http://www.pracatinat.it/ PRACATINAT s.c.p.a.	Yes - Pracatinat
Project-based learning emphasizes learning activities that are long-term, interdisciplinary and student-centered. Unlike traditional, teacher-led classroom activities, students often must organize their own work and manage their own time in a project-based class. Project-based instruction differs from	Comprehensive Project-based Learning: - is organized around an open-ended driving question or challenge creates a need to know essential content and skills requires inquiry to learn and/or create something new requires critical thinking, problem solving, collaboration, and various forms of communication, often known as	Comprehensive Project-based Learning: - develops critical thinking, problem solving, collaboration, and various forms of communication - develops students' awareness, appreciation, skills, and commitment to address environmental issues.	Project-based learning develops students' awareness, appreciation, skills, and commitment to address environmental issues.	Markham, T. (2011). Project Based Learning. Teacher Librarian, 39(2), https://www.plt.org		yes - Tree project HU
conservation education program which is	Activities are based on learning model of 3 stages: experience - reflextion-concept It is an international network of students, educators, parents, community leaders, educational administrators, resource agencies, and conservation groups. lideal for integration into the teaching of science, social studies, language arts, math, art, physical education, health, music, and other curriculum areas.			http://www.projectwil d.org/		No
or more days on a farm what means	1. First, it is a stay – from one day to a week on a real farm producing real food. 2. Some basic principles used are Place-based Learning and Hands-on-activities which can be reflected and deepened indoors/in a school. 3. On the School farms different methods from outdoor/adventure education are used.	What children can experience emotionally they become interested in: Experiencing responsibility, the joy of being outside, cooperating in the group, being with animals and achieving a task raises their self-confidence and well-being. The environmentally-conscious behaviour is connected with fun and happiness: this is an important base for sustainable behaviour.		http://www.lernenauf dembauernhof.de, http://www.farmbase deducation.org, http://www.baglob.d e	in Germany: Schulbauernhof Hutzeliberg www.schulbauernhof- hutzeliberg.de	Yes – "School Farming".
5-10-day summer camp, environmentally friendly, even nomadic, preferably in a nice natural environment.	It is a well-known that we care for something, if we are emotionally connected to it, if we like it. One can love something, if knows it well. Summer camps for children are perfect places to experience and live through this process. Children live outdoors, with nature, as a part of it. It is very important that the camp should be well organised: nice camp site that touches the children and raises respect towards nature by its shear appearance:	Fistr-hand experience based. Immersion into nomadic way of living. Creates emotional links to nature and environment. Promotes self reliance, team and community building.	In a nomadic camp children can experience environmentally aware way of living which they can accept, take home and integrate into their every day life. Emotional link to nature created as a basis for behaviour change. It is also an important venue for socialization.	Legány András: Környezeti nevelés a táborban http://www.okotaj.hu /szamok/03/korny5. html; Bundai Zs. – Filó A. –Malatinszky Å.	Pangea Association, www.pangea.hu	Yes - Hedgehog Camp HU
the opportunity to live in a park for a week. They usually spend the day in the park and go	The range of activities children follow during their stay at the camp are aimed at promoting respect and care for the park environment and stimulating a sense of cooperation	esponsibility and cooperation. Kids will develop a sense of responsibility and the ability to plan and to realise their ideas. Kids will be able to recognise their relationship to nature. Having nature experiences of different kinds will	beyond the planned activities, should be encouraged (i.e. feel free to change the activity if something unexpected and potentially significant in a educational way happens). Attention to the environment and explanation for proposed behaviors should always be		http://www.crada.it/idaa.	Yes - Summer camp in the park
connecting students with nature, themselves and others. They learn outside about basic principles of life, awareness, they aquire skills	the senses, exploring field guides, journaling, thanksgiving etc. 2. A mentor (the facilitator) is the one who guides the attention and curiosity of the learners	it into self-led actions – starting at where people are at. The practices or Core routines are used since thousands of years		- Young, John et. al. (2010) Coyotes Guide to Connecting with Nature http://www.wildernes sawareness.org	nttp://www.creda.it/idee- per-lestate-2014/ CREDA Onlus In Germany: Wildnisschule Wildniswissen www.wildniswissen.de, Wildwechsel Naturschule www.wildwechsel- naturschule.de	Yes – "Classroom Nature" based on the Wilderness Awareness approach.
	Consumption the students explore different shops and organisations and get to know their cities with a different focus: Equal payment, Food and nutrition, Consumerism, Global justice. Model for interpretive programs for different target groups based on communication the "main idea" of the place. Heritage interpretation is "an educational activity which aims to reveal meanings and relationships through Place-based education helps students learn to take care of the world by understanding where they live and taking action in their own backyards and communities. This method aims at developing knowledge about important subjects while promoting dialogue and involve young people in decision making processes. Project-based learning emphasizes learning activities that are long-term, interdisciplinary and student-centered. Unlike traditional, teacher-led classroom activities, students often must organize their own work and manage their own time in a project-based class. Project-based instruction differs from Project WILD is a wildlife-focused conservation education program which is based on the premise that young people and educators have a vital interest in learning about our natural world. School Farming means to experience for one or more days on a farm what means agriculture, how is life on a farm, where does our food come from etc. This method gives children of different ages the opportunity to live in a park for a week. They usually spend the day in the park and go home at night, but once or twice a week they can sleep in a tent.	Consumption the students explore different obtes with a different focus: Equal payment, Food and nutrition, Consumerism, Global justice. Model for interpretive programs for different target groups based on communication the main idea? of the place. Hertiage main idea? of the place. Hertiage interpretation is "an educational activity which aims to reveal meanings and relationships through to reveal meanings and relationships through to reveal meanings and relationships through blace-based education helps students learn to stake care of the world by understanding where here is the promoting of the place. Hertiage about important subjects while promoting dialogue and involve young people in decision making processes. Sincessful place-based programs involve students as participants in the life of their communities. Successful processes demonstrate many of the following that are conformed to the disastroom and into the community and natural environment. This method aims at developing knowledge about important subjects while promoting dialogue and involve young people in decision making processes. Since the processes of the world by understanding where about important subjects while promoting activities that are long-term, interdisciplinary activities that are long-term, interdisciplinary activities that are long-term, interdisciplinary and students-chered Unlike traditional, teacher-led classroom activities, students often must organize their own work and manage their own time in a project-based and amanage their own time in a project-based and manage their own time in a project-based and management the students are comprehensive. Project-based Learning and the proper students in learning about our natural world. School Farming means to experienc	Consumption the students explore different shops and comparisons and get to now income the shops and comparisons and get to now concerning which shops and comparisons and get to now concernment, other class with a different focus. Equal polymers, justices. Model for interpretive programs for different integer group between the concernment of the concer	Consumption he bedomit explored inferred and effect and expendence of the control	Consumption to estudents explore allerium, and colorate as a contraction. The place is formed to produce a the colorate as a contraction. The place is formed to produce a the colorate as a contraction. 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Coulting for its mala