



## Planning a Hiking Day at School

Jahrgangsstufe	8
Fach/Fächer	Wirtschaftsgeographie – Vorbereitungskurs
Übergreifende Bildungs- und Erziehungsziele	Alltagskompetenz und Lebensökonomie Medienbildung Kulturelle Bildung
Zeitraumen	18 Wochenstunden
Benötigtes Material	Computer/Tablet/Smartphone

### Kompetenzerwartungen

Die Schülerinnen und Schüler

- nutzen die bereitgestellten Informationsmaterialien.
- beschaffen sich selbständig Informationen zur Planung und Durchführung ihres Vorhabens.
- entwickeln einen Vorschlag für einen Wandertag unter Berücksichtigung der vorgegebenen Rahmenbedingungen.
- präsentieren ihren Vorschlag für einen Wandertag mittels digitaler Medien unter Verwendung von grundlegendem Fachwortschatz.



### Aufgabe

#### Situation:

As is the case every year, you will have a hiking day at the beginning of your school year. Of course, the trip should be attractive to everybody in your class, so your teacher includes you in its organization. Since you have Italian and English exchange students at your school at the moment, you should keep in mind that they are involved in the day trip as well. Your bilingual class is tasked with planning the hiking day.

There are a few factors you have to consider:

- Remember that it should take place within a school day, so you have to be back at school at 3 p.m.
- The overall budget per student shouldn't be higher than EUR 25.
- Find an attractive activity for you and your classmates.
- Choose a suitable form of transportation for your trip (bus, train, walking).
- It might be a good idea to have a plan B in case of bad weather.
- Do you want to eat in a restaurant or bring your own food and beverages?

Get together in groups of two to five people and prepare a presentation about your trip. Your presentation should also include a map which shows the route of your day trip and gives information about the time which is required for the various activities and for transportation.

#### Outcome:

Presentation about your planned trip including a handout



### **Material A-1: Planning a tour**

In order to efficiently plan your hiking day, your teacher has shown you several digital tools that might help you prepare a tour. In all of those tools, you start by entering your location into the search engine and then you instantly get a set of suggested routes, or you can start planning your own hike by selecting different waypoints on a digital map.

#### **Task 1: Planning a simple hiking trip**

Get into groups of two and plan a hiking trip of your choice. The hike should be at least 10km long and you should include a stop for a break.

#### **Task 2: Assessing the digital tool**

After your first experience planning a tour with a digital tool, you should review it concerning its usability. What did you like about the tool? Which things would you criticize?

## Material A-2: Basic Geography Vocabulary

Vocabulary			
<b>altitude</b>	Höhe, Höhenlage	<b>miles</b>	Meilen
<b>analemma</b>	Analemma	<b>mountain</b>	Berg
<b>Antarctica</b>	Antarktis (am Südpol)	<b>mountain range</b>	Gebirge, Gebirgszug, Bergkette
<b>antipodes</b>	Antipoden	<b>nation</b>	Nation, Staat
<b>arctic</b>	Arktis (am Nordpol)	<b>nautical chart</b>	Seekarte
<b>area</b>	Fläche	<b>Northern Hemisphere</b>	Nördliche Hemisphäre
<b>atlas</b>	Atlas, Kartensammlung	<b>North Pole</b>	Nordpol
<b>azimuth</b>	Sollkurs, Azimut, Kurs	<b>ocean</b>	Meer, Weltmeer
<b>bathymetric</b>	bathymetrisch (Tiefe!)	<b>parallel</b>	nebeneinander, gleichlaufend
<b>border</b>	Grenze, Ufer, Gebietsgrenze	<b>peak</b>	Gipfel, Höchstpunkt, Höchstwert
<b>capital</b>	Hauptstadt	<b>pole</b>	Pol
<b>cartography</b>	Kartographie	<b>peninsula</b>	Halbinsel
<b>chart</b>	Tabelle, Grafik, Schaubild,...	<b>political map</b>	politische Landkarte
<b>compass rose</b>	Windrose	<b>prime meridian</b>	Nullmeridian (Greenwich Meridian)
<b>continent</b>	Kontinent	<b>projection</b>	Projektion, Abbildung
<b>contour line</b>	Höhenlinie, Höhenschichtlinie	<b>ratio</b>	Verhältnis, Schlüssel
<b>country</b>	Land, Gelände	<b>region</b>	Landschaft, Gegend
<b>degree (e.g. of latitude)</b>	Grad (Breitengrad)	<b>relief map</b>	Höhenkarte, Reliefkarte
<b>Eastern Hemisphere</b>	Östliche Hemisphäre	<b>scale</b>	Skala, Staffel, Ausmaß, Tabelle
<b>elevation</b>	Erhebung, Anhöhe	<b>scale bar</b>	Maßstabsbalken
<b>equator</b>	Äquator	<b>sea</b>	Meer
<b>geographic coordinates</b>	geographische Koordinaten	<b>sea level</b>	Seehöhe, Meereshöhe, Meeresspiegel
<b>geography</b>	Erdkunde, Geografie, Geographie Erdbeschreibung	<b>Southern Hemisphere</b>	Südliche Hemisphäre
<b>global</b>	weltweit, global, allgemein, pauschal	<b>South Pole</b>	Südpol
<b>great circle (i.e. orthodrome)</b>	Großkreis (Sphäre)	<b>street map</b>	Straßenplan, Straßenkarte
<b>hemisphere</b>	Halbkugel, Hemisphäre, Erdhälfte; Hirnhälfte	<b>territory</b>	Gebiet, Hoheitsgebiet, Raum
<b>IDL (International Date Line)</b>	Internationale Datumsgrenze	<b>title</b>	Aufschrift, Überschrift
<b>island</b>	Insel	<b>topographic map</b>	topographische Karte
<b>key</b>	Zeichenerklärung, Insel, Koralleninsel	<b>topography</b>	Topik, Geländekunde, Ortsbeschreibung, Topographie
<b>latitude</b>	Breitengrad	<b>tributary</b>	Nebenfluss
<b>legend</b>	Legende, Zeichenerklärung	<b>Tropic of Cancer</b>	Nördlicher Wendekreis, Wendekreis des Krebses
<b>longitude</b>	Länge, Längengrad	<b>Tropic of Capricorn</b>	Südlicher Wendekreis, Wendekreis des Steinbocks
<b>magnetic pole</b>	Magnetpol	<b>tropics</b>	Tropen
<b>mercator projection</b>	Mercatorprojektion	<b>weather map</b>	Wetterkarte
<b>meridian</b>	Meridian, halber Längengrad, Mittagskreis, Längengrad	<b>Western Hemisphere</b>	Westliche Hemisphäre

## Material B: Elements of a map

*Bildquelle: Karte*

Aus urheberrechtlichen Gründen kann die Karte nicht abgedruckt werden!

Suchbegriffe: elements, diercke, map, pdf

### Task 1: The scale bar

The title of a map gives you an idea of what it shows. The **scale bar** helps you to evaluate or measure distances on a map. Maps display a large area on a small surface, so they require scales to show the difference between the reality and the reality that they show. Remember that scaling is not only used on maps but also for miniature models of large objects. You will easily get the feeling for how scaling works by completing the following task. In this exercise, match the scale to the object or surface areas shown.

1	1:1	___	A	a topographical map of Germany
2	1:43	___	B	a statue of yourself which is the same size as you
3	1: 25 000	___	C	a standard “matchbox” model car to play with
4	1: 50 000	___	D	a map displaying a large part of the USA
5	1:100 000	___	E	a hiking map of the area where you live
6	1: 2 500 000	___	F	a map for hiking and cycling
7	1: 16 000 000	___	G	a topographical map of Bavaria

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**Solution:**

**1B – 2C – 3E – 4F – 5G – 6A – 7D**



## Task 2: The key/legend to physical and thematic maps

Every map has got a **key** (also called a **legend**). You have to study it carefully before you use the map because it explains everything you can see on it. You may find different colors, symbols, lines, points, textures, shadings, inset diagrams, or scales. Quite often the key of a map is self-explanatory. Please decide for yourself whether this is true for the legend of our map above. Give a short description of the contents of the boxes shaded in grey (i.e. paraphrase the terms in the box).

*You can give your answer in German if you feel more comfortable using your mother tongue!*

<b>Map number:</b>	
<b>Title:</b>	
<b>Scale:</b>	
<b>Scale bar:</b>	
<b>Geographic coordinate system:</b>	
<b>Texture:</b>	
<b>Symbol:</b>	
<b>Shading:</b>	
<b>Inset diagram:</b>	

## Material C: Guideline for successfully participating in Economic Geography – Creating your own material for our hiking tour

The first two sessions of your Economic Geography course introduced you to different kinds of maps and tools that can be used to plan your class trip. Before you take action yourself and you start planning your own hiking day for your class, have a look at the material provided below (*A tour to Kuhflucht Waterfalls via Philosopher's Trail*). The material should serve as a guideline and show you which elements your handout and presentation could contain. The material, however, is only a suggestion. If you come up with other ideas how to combine and present all the facts about your hiking day, feel free to do so.

### ***A tour to Kuhflucht Waterfalls via Philosophenweg (= Philosopher's Trail)***

#### I. General information: Describing the tour

The following text is an example for describing a tour/trip (recommendations by the author can be included).

**Task: Fill in the gaps with the words from the word bank below. There are more words than you need.**

*Philosopher's Trail* is a well-\_\_\_\_\_ hiking path \_\_\_\_\_ the foot of Mount Wank. This delightful path starting in the center of Partenkirchen requires hikers to hike over gentle ascents and \_\_\_\_\_. You will walk along a forest path passing clearings that offer breathtaking \_\_\_\_\_ of the mountain ranges *Wetterstein* and *Karwendel*. At the end of the tour you will arrive at the so-\_\_\_\_\_ *Kuhflucht Waterfalls*.

*Philosopher's Trail* earns its name by displaying information about \_\_\_\_\_ philosophers. Along the way you will find numerous \_\_\_\_\_ that invite you to take a break and read the various signs displaying information about those famous people. As is true everywhere in the Alps, the forests mainly consist of coniferous trees like pines, fir trees, spruces, and mountain pines. You can have fun classifying them as you go along the *Waldlehrpfad Farchant*, a natural trail integrated into the landscape that helps you to learn about \_\_\_\_\_ and trees in general. During winter, especially after heavy \_\_\_\_\_, the path and the waterfall at its end are not accessible. If there is danger ahead or parts of the tour are closed, you will find \_\_\_\_\_ displaying the relevant information. Basically, the tour consists of three sections: First, *Philosopher's Trail* with all its benches, clearings and viewpoints; second, the educational forest path beginning after five kilometers or a one hour \_\_\_\_\_; and finally, the waterfall section at the



*Kuhflucht* gorge next to Farchant. The third part is the most strenuous and you need a certain amount of \_\_\_\_\_ but you will find different places – so called Gumpen – where you can rest and even take a swim in the alpine streams of the *Kuhflucht Waterfalls*. \_\_\_\_\_, you may continue the tour by climbing the mountain *Hoher Fricken*. The whole tour runs between the two mountains *Wank* and *Hoher Fricken*, which \_\_\_\_\_ Garmisch-Partenkirchen and Farchant. It is recommended that you bring your own food and beverages (please do not use any plastics and always keep your environment clean and tidy) because there are no inns \_\_\_\_\_ the way. No worries – the whole tour will only take a few hours and can be shortened or cut short at various \_\_\_\_\_.

### word bank

benches – discovering – views – signs – stamina – forest – trails – paths – optionally  
optional – maintained – flowers – Bavaria – Germany – surround – Europe  
plants – forests – fillings – famous – ingredients – material – at – in – of – positions  
descents – ascents – walk – called – resting places – named – snowfall – along – near  
boards – information – basin – pool – places – cows – cattle – break



### Solution:

*Philosopher's Trail* is a well-maintained hiking path at the foot of Mount Wank. This delightful path starting in the center of Partenkirchen requires hikers to hike over gentle ascents and descents. You will walk along a forest path passing clearings that offer breathtaking views of the mountain ranges *Wetterstein* and *Karwendel*. At the end of the tour you will arrive at the so-called *Kuhflucht Waterfalls*.

*Philosopher's Trail* earns its name by displaying information about famous philosophers. Along the way you will find numerous resting places/benches that invite you to take a break and read the various signs displaying information about those famous people. As is true everywhere in the Alps, the forests mainly consist of coniferous trees like pines, fir trees, spruces, and mountain pines. You can have fun classifying them as you go along the *Waldlehrpfad Farchant*, a natural trail integrated into the landscape that helps you to learn about forests and trees in general. During winter, especially after heavy snowfall, the path and the waterfall at its end are not accessible. If there is danger ahead or parts of the tour are closed, you will find signs displaying the relevant information. Basically, the tour consists of three sections: First, *Philosopher's Trail* with all its benches, clearings and viewpoints; second, the educational forest path beginning after five kilometers or a one hour walk; and finally, the waterfall section at the *Kuhflucht* gorge next to Farchant. The third part is the most strenuous and you need a certain amount of stamina but you will find different places – so called Gumpen – where you can rest and even take a swim in the alpine streams of the *Kuhflucht Waterfalls*. Optionally, you may continue the tour by climbing the mountain *Hoher Fricken*. The whole tour runs between the two mountains *Wank* and *Hoher Fricken*, which surround Garmisch-Partenkirchen and Farchant. It is recommended that you bring your own food and beverages (please do not use any plastics and always keep your environment clean and tidy) because there are no inns along the way. No worries – the whole tour will only take a few hours and can be shortened or cut short at various places.



## II. Facts about your trip

Here you should provide useful information about your tour, for example, geographical or economic data and other miscellaneous facts. The following information is about the trip to *Kuhflucht Waterfalls*:

<b>Difficulty:</b>	<i>easy</i>
<b>Equipment:</b>	<i>normal footwear</i>
<b>Stamina:</b>	<i>little</i>
<b>Duration:</b>	<i>3-5 hours</i>
<b>Parking:</b>	<i>available, free</i>
<b>Public transportation:</b>	<i>available (bus)</i>
<b>How to get there:</b>	<i>here: write a short description of how to get to a specific starting point</i>
<b>Landscape:</b>	<i>mountain, forest roads, hiking trails, natural/educational trails</i>
<b>Altitude:</b>	<i>675-828m (lowest and highest point of your trip)</i>
<b>Distance:</b>	<i>6km one-way (roundtrip: 12km)</i>
<b>Ascent:</b>	<i>320m</i>
<b>Descent</b>	<i>310m</i>
<b>Coordinates:</b>	<i>GPS: 47° 31' 32.264" N 11° 7' 54.944" E longitude 47.525629 latitude 11.131929</i>
<b>Budget:</b>	<i>???</i> <i>here: find out how much your trip will cost</i>

### III. Waypoints and turn-by-turn-directions

**Task: Fill in the gaps so that the text makes sense. The first letter of each word has already been given.**

From the town **c**\_\_\_\_\_ of Partenkirchen, turn onto Sankt Anton street. At the end of this street, you will come across **s**\_\_\_\_\_ showing you the way to *Philosopher's Trail*, which will lead you past the pilgrimage **c**\_\_\_\_\_ *Sankt Anton* along the way. From there, the forest trail leads you through a coniferous **f**\_\_\_\_\_ for a short distance. You will cross some clearings with **m**\_\_\_\_\_ where some cows might be grazing (info signs will tell you to be careful when crossing such an area). The entire *Philosopher's Trail* is located at the **f**\_\_\_\_\_ of *Wank Mountain*. After about one hour, you will reach a large meadow where you will probably find cattle **g**\_\_\_\_\_ in the summer. At the end of this large **c**\_\_\_\_\_ there is an information point marking the start of the educational forest trail to *Kuhflucht Waterfalls*. After one more hour, you will reach the steeper **p**\_\_\_\_\_ leading up to the three different levels of the waterfall area. Do not cross the wooden bridge there (this will lead you to Oberau and Eschenlohe) but instead keep right. There you'll have different **o**\_\_\_\_\_ for exploring the waterfalls area depending on how much of your time or **s**\_\_\_\_\_ is left.

**Extra task for fast learners:**

**Make a list of pros and cons** (advantages and disadvantages) of **digital and printed** material for a hiking tour. Use the outline of the table below and extend it if necessary.

Pro		Con	
<i>digital material</i>	<i>printed material</i>	<i>digital material</i>	<i>printed material</i>

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**Solution:**

From the town center of Partenkirchen, turn onto Sankt Anton street. At the end of this street, you will come across signs showing you the way to *Philosopher's Trail*, which will lead you past the pilgrimage church *Sankt Anton* along the way. From there, the forest trail leads you through a coniferous forest for a short distance. You will cross some clearings with meadows where some cows might be grazing (info signs will tell you to be careful when crossing such an area). The entire *Philosopher's Trail* is located at the foot of *Wank Mountain*. After about one hour, you will reach a large meadow where you will probably find cattle grazing in the summer. At the end of this large clearing there is an information point marking the start of the educational forest trail to the *Kuhflucht* waterfalls. After one more hour, you will reach the steeper path leading up to the three different levels of the waterfall area. Do not cross the wooden bridge there (this will lead you to Oberau and Eschenlohe) but instead keep right. There you'll have different options for exploring the waterfalls area depending on how much of your time or stamina is left.

## Now it's your turn!

- 1. Choose a destination for your hiking day.**
- 2. Plan your tour.**
- 3. Prepare a presentation including a handout.**

The guideline above should help you create your own material. Don't worry, your teacher will always be on hand with help and advice for you and your teammates.

While preparing your trip, make sure to consider the following factors:

- Remember that it's a school day; you have to be back at school at 3 p.m.
- The overall budget per student shouldn't be higher than EUR 25.
- Find an attractive activity for you and your classmates.
- Choose a suitable form of transportation for your trip (bus, train, walking).
- It might be a good idea to have a plan B in case of bad weather.
- Do you want to eat in a restaurant or bring your own food and beverages?

Guidelines for your presentation and your handout:

- Your presentation should not contain more than twelve slides. The presentation time should not exceed five minutes – not including time for discussion(s). You should also give a rough estimate about how much the tour will cost for each of your classmates!
- The maximum length of your handout should not exceed two pages. It is obligatory to add a screenshot of the app or map you have used.



## Quellen- und Literaturangaben

Material A-1	
Titel:	Planning a tour
Autor:	ISB
Erscheinungsjahr:	2019
Art:	Lernaufgabe
Copyright	ISB

Material A-2	
Titel:	Basic Geography Vocabulary
Autor:	ISB
Erscheinungsjahr:	2019
Art:	Arbeitsblatt
Copyright	ISB

Material B	
Titel:	Elements of a map
Autor:	ISB
Erscheinungsjahr:	2019
Art:	Lernaufgabe
Copyright	ISB

Material C	
Titel:	Guideline for successfully participating in Economic Geography – Creating your own material for our hiking tour
Autor:	ISB
Erscheinungsjahr:	2019
Art:	Lernaufgabe
Copyright	ISB

## Hinweise zum Unterricht

Phase	Inhalt/Handlung/mögliche Handlungsprodukte	Sozialform/ Methode	Material	Bemerkung
<b>Stunde 1-4:</b> Orientieren	Informationen zur Planung von Touren <ul style="list-style-type: none"> <li>➤ Brainstorming: Yesterday (Atlas, Rollkarte, Kompass) – nowadays (Apps und Tools) – tomorrow (VR und AR)</li> <li>➤ Überblick zu digitalen Hilfsmitteln</li> </ul>	Partnerarbeit L-S-Gespräch	Material A1, A2	Die Lehrkraft stellt verschiedene digitale Hilfsmittel ihrer Wahl vor und lässt den Umgang damit üben. Vor dem Einsatz der digitalen Hilfsmittel prüft die Lehrkraft eigenständig in Absprache mit der Schulleitung und dem Datenschutzbeauftragten der Schule die rechtlichen Komponenten und die Verfügbarkeit dieser digitalen Hilfsmittel.
<b>Stunde 5-8:</b> Informieren	Arbeiten mit Kartenmaterial	L-S-Gespräch Einzelarbeit Partnerarbeit	Material B	Klassisches Lesen von Karten und Legenden; fehlende Karte von Material B durch Suchbegriffe aufzufinden
<b>Stunde 9-14:</b> Planen und Durchführen	Eine eigene Wanderung/Tour organisieren <ul style="list-style-type: none"> <li>➤ Bearbeitung des bereitgestellten Materials</li> <li>➤ Erstellung der Tour</li> </ul>	L-S-Gespräch Partnerarbeit Recherche	Material C	Quelle Texte Material C: ISB
<b>Stunde 15-18:</b> Präsentieren Bewerten Reflektieren	Präsentation der Ergebnisse, Erfahrungsaustausch, Vorteile/Nachteile analoger/digitaler Materialien für Wanderungen	Präsentation		Präsentation mit anschl. Diskussion
<b>Handlungsprodukte:</b> Handout und Präsentation zu Wandertagszielen				