

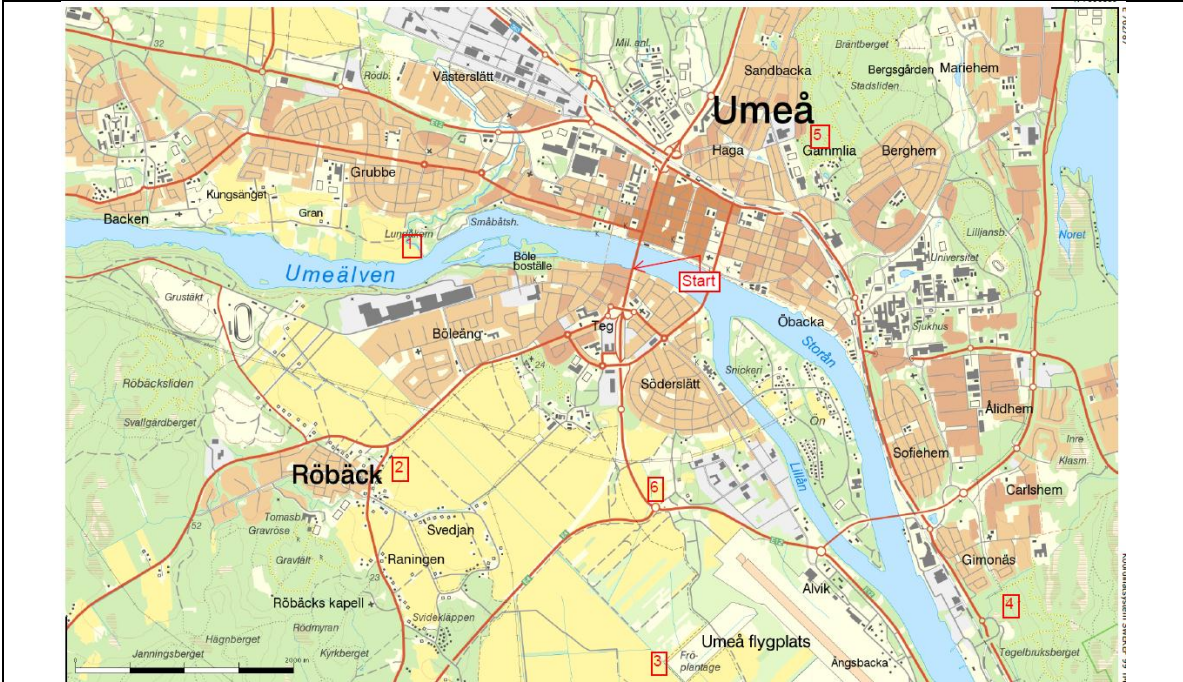
Map reading skills

To measure children's map reading skills a pre-and post-test was developed. The two map reading tests were piloted with 48 children of grade 4 and 5 in order to determine whether their difficulty levels are equal and whether they are not too easy for the target group.

Umeå Map reading activity

1. **Whole map:** There is a university towards the right of the map (universitet). What is the name of the residential area that lies almost straight to the north of the university?
2. **Whole map:** Find Röbbäcks kapell (Röback's chapel). Where do you get if you go 1.1 kilometer to the southeast? Write a 1 on the map where you get.
3. **Whole map:** Where do you get if you go 750 meter straight to the south-southwest from the central station? Write a 2 on the map where you get.
4. **Whole map + Detail map:** On the big map there is an island in the river to the north of the residential area called Böleäng. Now check the detail map: What is the name of the part of the island that lies most to the west? _____
5. **Detail map:** There is a power line over Lundåkern. How long is this power line?
6. **Whole map:** The city of Umeå considers building a new rubbish dump. There are six possible places that are indicated with numbers. Find the correct place based on the following clues:
 - a. First, find the word "Start" on the map and check where the arrow points at. The rubbish dump should not be built to the west of this point.
 - b. The rubbish dump should not be built in a forest area
 - c. The rubbish dump may not be placed further than 2 kilometer from the start point
7. Write the number of the place where the rubbish dump should be built: _____

Whole Map of Umeå



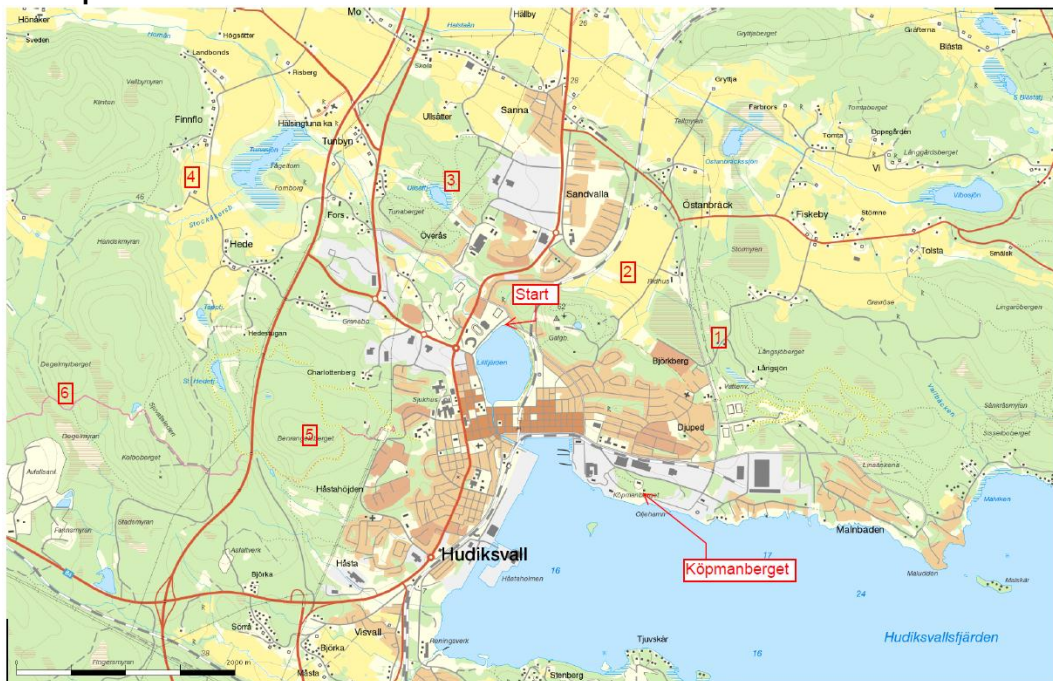
Detail Map of Umeå



Hudiksvall Map Activity

1. **Whole map:** There is a hospital (sjukhus) in the middle of the map. What is the name of the nearest lake that lies almost straight to the east of the hospital?
2. **Whole map:** Where do you get if you go 0.75 kilometer to the north-west from the central station? Write a 1 on the map where you get.
3. **Whole map:** Find Köpmanberget (there is an arrow pointing it out). Where do you get if you go 1300 meter to the north-northeast? Write a 2 on the map where you get.
4. **Whole map + Detail map:** On the whole map you will see two green islands to the east of Hudiksvall. Check the detail map: What is the name of the island that lies most to the west?
5. **Detail map:** There is a bathing area (Badplats) close to Maln. What is the distance from Håstaholmen to this bathing area by boat?
6. **Whole map:** The city of Hudiksvall considers building a new water supply. There are six possible places that are indicated with numbers. Find the correct place based on the following clues:
 - a. First, find the word "Start" on the whole map and check where the arrow is pointing. The water supply may not be built to the west of this point
 - b. The water supply must be built in a forested area
 - c. The water supply must lie around 2 kilometer from the start point
7. Write the number of the place where the water supply should be built: _____

Whole Map of Hudiksvall



Detail Map of Hudiksvall

