

**Alegerea liceului și profilului potrivit la finalul clasei a VIII-a**

<b>Title:</b> Career guidance	<b>Time:</b> 2 ore
<b>Subject:</b> <i>Counselling and Personal Development</i>	
<b>Aims:</b> using computational thinking when having to make a career decision, such as choosing high school at the end of secondary school	General competence <sup>1</sup> : 4. Taking decisions about further education and career by using information about self, education and occupations. Specific competence <sup>2</sup> : 4.2 Developing a personal education and career plan.
<b>Key CS elements:</b> <b>Decomposition; Pattern recognition; Abstraction; Algorithm design</b>	
<b>Age group:</b> 14 years old students	
<b>Learning situations:</b> classroom	<b>Activity type:</b> analysis
<b>Resources:</b> <b>high school websites, high school admission leaflet</b>	
<b>Learning development:</b>	
<b>Problem definition: How do we choose the right high school and profile at the end of 8th grade/secondary school?</b>	
<b>I. Descompositi</b> on: we divide the problem into smaller, more manageable segments	
-what are the stages of decision making when students have to choose the right high school and profile at the end of 8th grade?	
-what information do students have about their psychological profile (knowledge, skills and aptitudes)?	
-what are students' interests, values and aspirations after leaving secondary school? What profession do they want to choose?	
-what are the demands of the profiles? their advantages, disadvantages and risks?	
-what is the existing school network in our county at the moment?	
-what are the facilities, traditions and specific features of each school?	
-What are the admission conditions and averages from previous school years?	
-What are the graduation procedures and the qualification achieved on completion of secondary school?	
<b>II. Pattern Recognition:</b>	

<sup>1</sup> According to the syllabus "Counselling and Personal development, grade 8", approved by order of the Minister of National Education No 3393 of 28 February 2017

<sup>2</sup> Idem

- Students graduating secondary school choose the right high school and profile according to certain criteria, such as:
- the specific requirements and the grades for a given profile/level in previous school years
  - the psychological profile of the students (certain knowledge, skills and abilities identified over time either through various psychological tests and/or self-awareness questionnaires or from various life experiences)
  - the perspective offered by a given profile after leaving secondary school
  - the facilities, the tradition and prestige, as well as the specificities of each school and profile
  - distance from the high school to the students' residence (proximity of the high school to the students' residence reduces the financial costs related to transport and/or accommodation)
  - the choices of classmates/friends or parents for a particular profile and high school

**III. Abstraction:** focusing on the essentials, eliminating non-essential details using a decision-making matrix

*Decision-making matrix*

1. State the problem.
2. Identify alternatives.
3. Set criteria.
4. Rank the criteria.
5. Assess the alternatives.
6. Make the decision.

CRITERIA						
Ranking						
Option 1						
Option 2						
Option 3						
Option 4						

**IV. Algorithm design:**

1. State the problem: choosing the right high school and profile at the end of 8th grade

2. Identify the alternatives:

- High schools in the hometown (e.g. a student from Turceni can chose Turceni Technological High School, or a student from Tg-Jiu can choose any high school in Tg-Jiu, etc).

- high schools in another town, different from the one where the student lives, but in the same county (example: a student from the town of Turceni can choose a high school in Targu-Jiu)

-high schools from another county (example: a student from the city of Targu-Jiu can choose the Military High School in Alba-Iulia, Alba county)

3. Set the criteria:

-grades from previous school years

-high school profile in connection with the student's psychological profile;

-the high school's academic achievements and prestige;

-proximity of residence

-choices of peers/friends or parents

-expectations offered by a particular profile

4. Rank the criteria:

- This matrix will help students to identify the main criteria they use when choosing the secondary school they want to attend, making it easier for students to rank their choices.

CRITERIA	Psychological and aptitudinal profile	Admission grade	Friends options	Distance from home
Ranking	1	2	3	4

Option 1	Sports High School			
Option 2		Economic High School Tg-Jiu		
Option 3			Tg-Jiu Auto High School	
Option 4				Henri Coanda High School Tg-Jiu

- the high school profile in connection with the psychological profile of the student (example: a student who has found at the end of the 8th grade that he has sports skills and does not want to go far from home will have as first option the Sports High School.

-The grades from previous school years (e.g. a student who achieved an overall grade of 9.50 at the end of 8th grade and an overall grade of 9.25 in the National Assessment Examination - which is taken at the end of 8th grade - will be able to choose one of the top 3 high schools in Tg-Jiu).

-distance from home (e.g. a student who has a precarious financial background and whose parents cannot afford to pay for transport and accommodation so that he/she can attend a secondary school in another locality will opt for an educational establishment as close to home as possible, even if the educational offer of this secondary school may not contain a suitable profile for this student, from a psychological-aptitudinal point of view).

-the choices of classmates/friends or parents (e.g. a student for whom the social aspect is very important will choose a school/profile that most of his/her classmates/friends have chosen, just to be with them; if a student has a very authoritarian parent who thinks he/she knows best what is the best choice for his/her child, he/she will choose a school/profile without taking his/her wishes into account).

#### 5. Evaluate options

-all students who graduate secondary school receive a booklet published by the Ministry of Education in collaboration with the County

School Inspectorates in which the schooling plan is presented. It includes all the educational offer of all the high schools in each county, the number of classes for each profile, the last admission score of the previous year and all the information related to the admission to high school in the current school year.

6. Make the decision.

-each student, at the end of 8th grade, selects those high schools that meet their criteria, ranking them according to their needs and desires, and then makes a final decision that is best for him/her.

**Assessment:** Monitoring the students

**Expected results: at the end of 8th grade they will choose the high school and the most suitable profile for them**

**Notes**