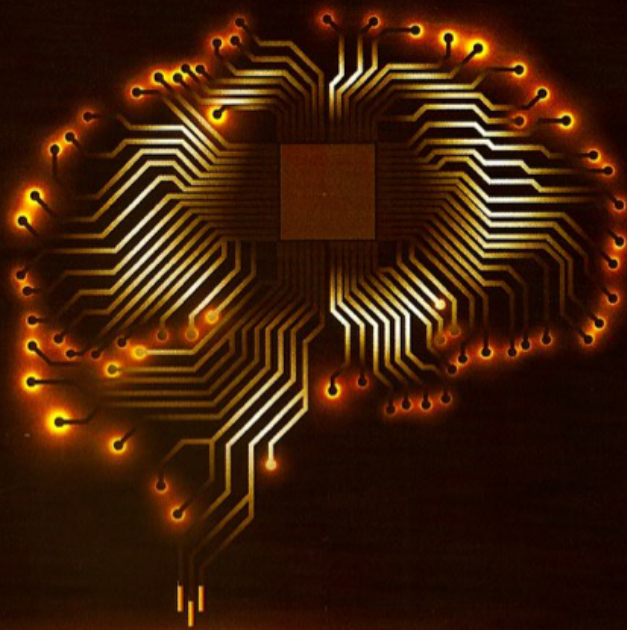


# STEROWANIE UCZĄCYM SIĘ MÓZGIEM



# Guiding the Learning Brain

## Abstract

The continuing adventure with developing and reinforcing intrinsic motivation has lasted in our school for four years. In September 2014 the school community prepared for the implementation of the concept introduced by professor Carol Dweck and from September 2015 to June 2016 conducted the pedagogical experiment "Success in School Education among the Growth Mindset Students" based on Carol Dweck's ideas. The academic support was given by dr Kornelia Rybicka of Adam Mickiewicz University in Poznań. In the following years the participants successfully applied the most valuable didactic and educational benefits of the experiment. The attempts were made to prepare a scientific paper describing the activities taken up by the students, teachers and scientists and as a result a book "Guiding the Learning Brain" was published in November 2017.

## Contents

### Chapter One

The theoretical context of the experiment entitled "Success in School Education among the Growth Mindset Students" based on Carol Dweck's ideas

- 1.1. The way toward gaining metacognitive knowledge at school  
Kornelia Rybicka, Stanisław Plebański
- 1.2. Why does a student need the knowledge of the learning brain?  
Kornelia Rybicka, Stanisław Plebański
- 1.3. A student in the context of genes, environment and his own choices  
Kornelia Rybicka, Stanisław Plebański

### Chapter Two

The schedule of the pedagogical experiment " Success in School Education among the Growth Mindset Students" based on Carol Dweck's ideas

- 2.1. The main objectives of the experiment  
Kornelia Rybicka
- 2.2. The actions taken by the school staff  
Kornelia Rybicka, Stanisław Plebański, Anna Narewska
- 2.3. Creating the projects "My Brain is my Workshop"  
Katarzyna Kozieł, Katarzyna Rzepczak, Stanisław Plebański
- 2.4. The Day of the Learning Brain  
Kornelia Rybicka, Stanisław Plebański, Stanisław Jakubowicz, Grzegorz Wiczorek

### Chapter Three

The support of the experiment " Success in School Education among the Growth Mindset Students" based on Carol Dweck's ideas in various subjects

- 3.1. The support of the experiment in Biology  
Katarzyna Rzepczak
- 3.2. The support of the experiment in Chemistry  
Katarzyna Koziel, Beata Górecka-Pęder
- 3.3. The support of the experiment in Physics  
Stanisław Plebański, Krzysztof Karpiński
- 3.4. The support of the experiment in Mathematics  
Zbigniew Miśkiewicz
- 3.5. The support of the experiment in Polish  
Kamilla Kiermasz
- 3.6. The support of the experiment in English  
Izabela Gracz, Anna Kowalczyk
- 3.7. The support of the experiment in Information Technology  
Donata Mieloch, Ryszard Maciejewski
- 3.8. The support of the experiment in Geography  
Anna Bobińska
- 3.9. The support of the experiment in Physical Education  
Monika Baran
- 3.10. The support of the experiment during the meetings with a class teacher  
Katarzyna Olejnik, Małgorzata Masłowska

#### Chapter Four

The results of the experiment "Success in School Education among the Growth Mindset Students" based on Carol Dweck's ideas

Kornelia Rybicka, Stanisław Plebański

- 4.1. The growth mindset students and the fixed mindset students
- 4.2. The students' plans for the future

#### Chapter Five

Students summing up the experiment after a year

Kornelia Rybicka, Stanisław Plebański, Katarzyna Koziel, Katarzyna Rzepczak