

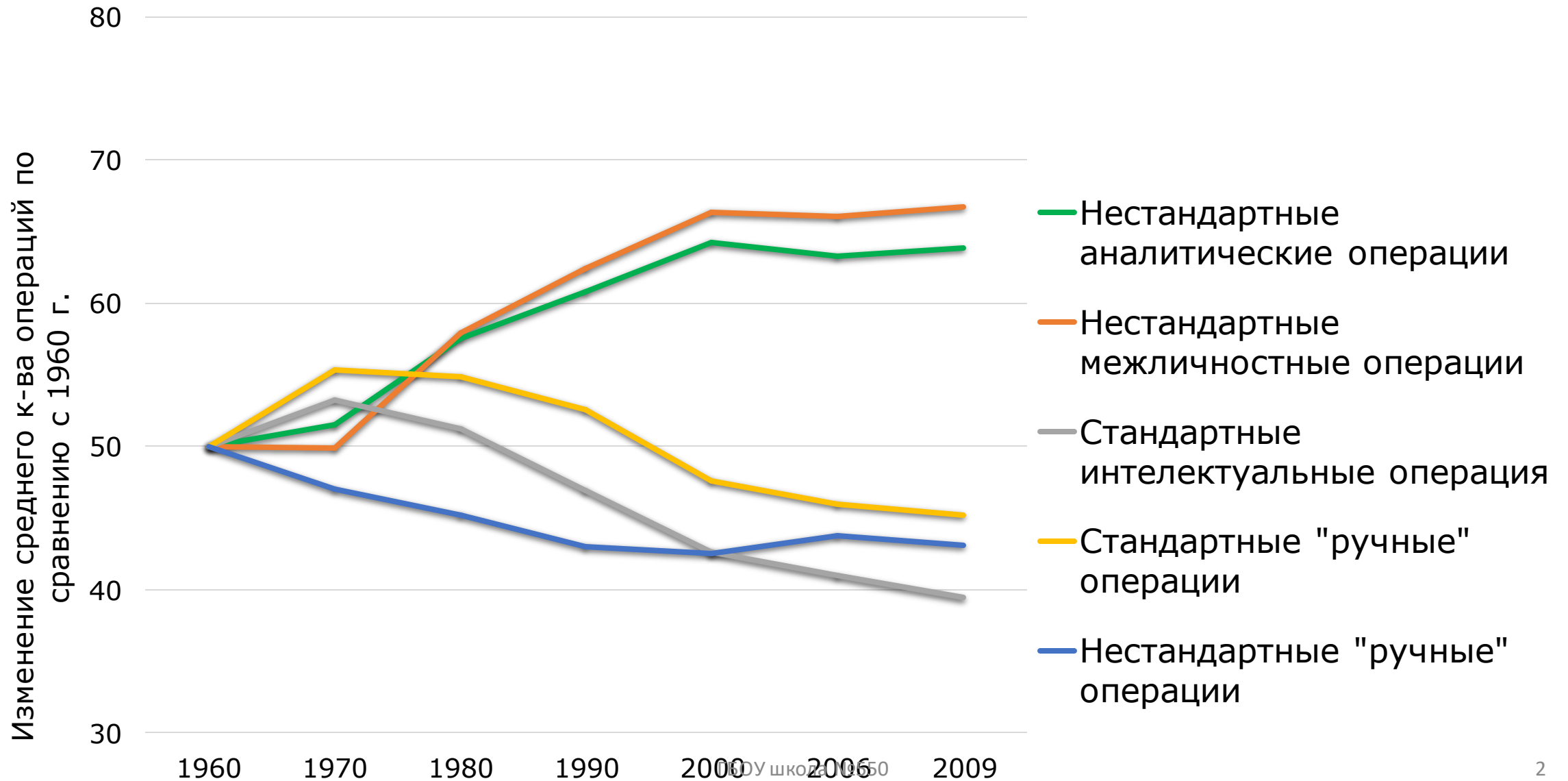
# Чему и как учиться сегодня, чтобы стать успешным завтра?

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# Разрыв 21-го века (Levy&Murnane)



# SAMR-модель (R. Puentedura)

4. Переосмысление учебного процесса (**R**edefinition)

3. Модификация учебного процесса (**M**odification)

2. Использование новых возможностей (**A**ugmentation)

1. Замещение старых учебных инструментов новыми (**S**ubstitution)

# Базовые сценарии цифровой трансформации

- **Инерционный**

(чтобы оставаться на месте, надо бежать изо всех сил)

- **Трансформационный**

(чтобы двигаться вперед, надо бежать еще быстрее)

- **Дивергентный**

(пусть расцветут сто цветов)



# Персонализация



Подход	Содержание	Методика	Темп
Традиционный	Единое	Единая	Единый
Дифференциро ванный	Разное	Единая	Единый
Индивидуализиро ванный	Разное	Разная	Разный
<b>Персонализиро ванный</b>	Единое	Разная	Разный

# Смена модели обучения

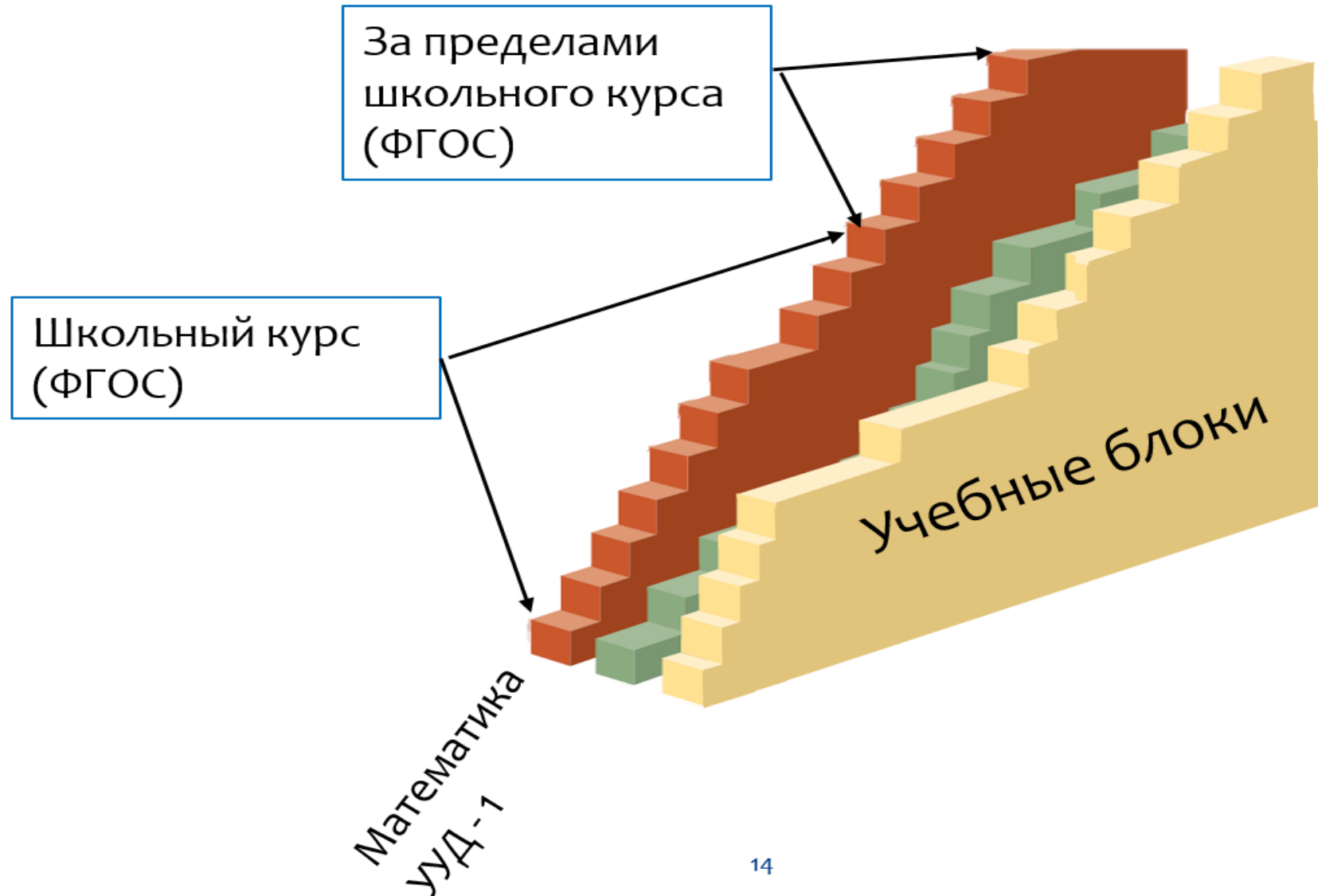


**“Урок” Ф. Зубер-Бахлер**



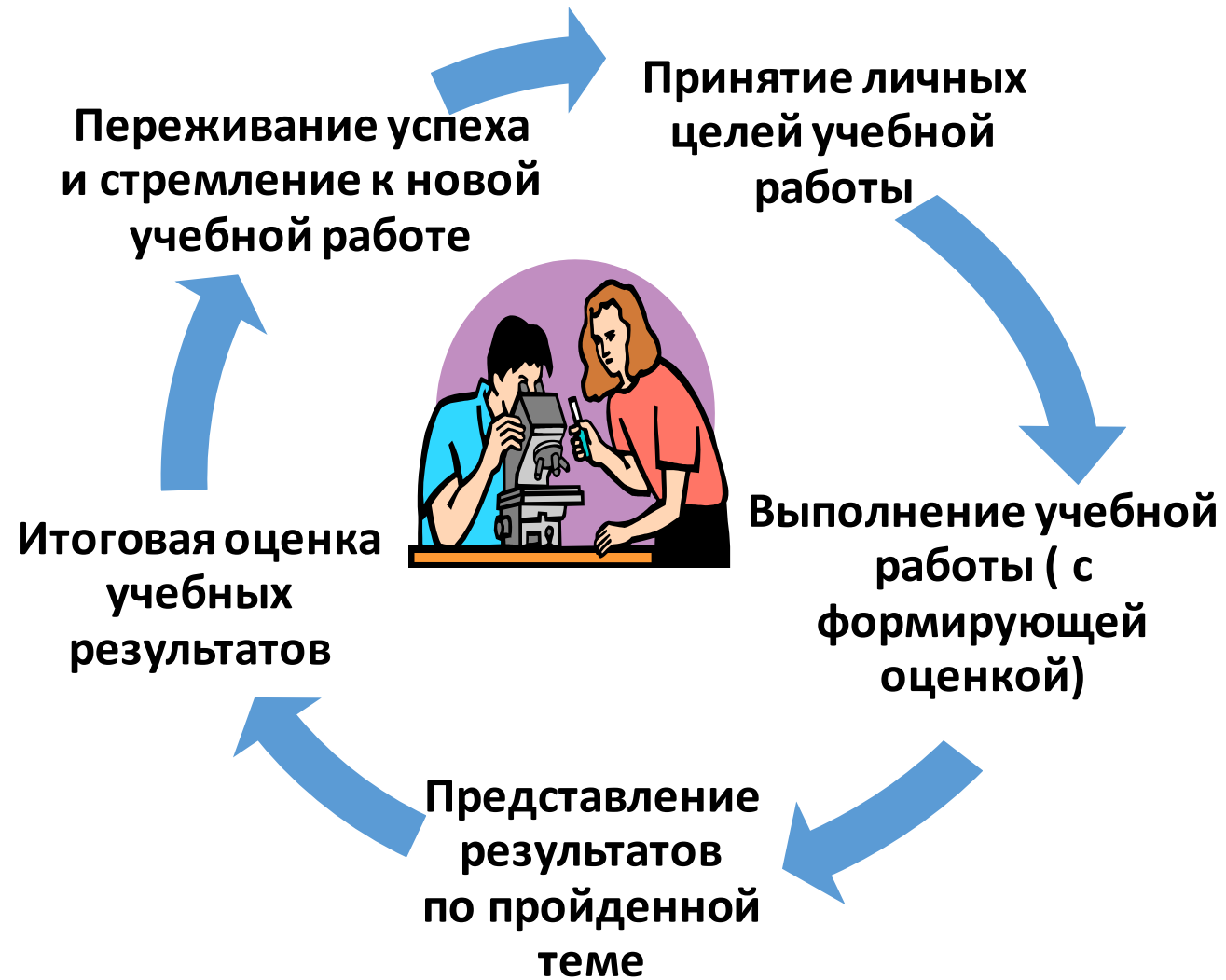
ГБОУ школа №550 **“Устный счет” Н. Богданов-Бельский**

# Водим ВНОД...





# Меняем учебный цикл...





# Переход к «Навыкам 21-го века»

# SECERT-модель (D. Buckley)

«Нам нужны уверенные в себе люди, которые являются ответственными гражданами, обладающие компетенциями, которые позволяют им быть эффективными в глобальной экономике знаний, вероятно, без нефти.»

**S**elf-Managers

**E**ffective Participators

**C**reative Thinkers

**R**eflective Learners

Independent **E**nquirers

**T**eam Workers

# Матрица Бакли



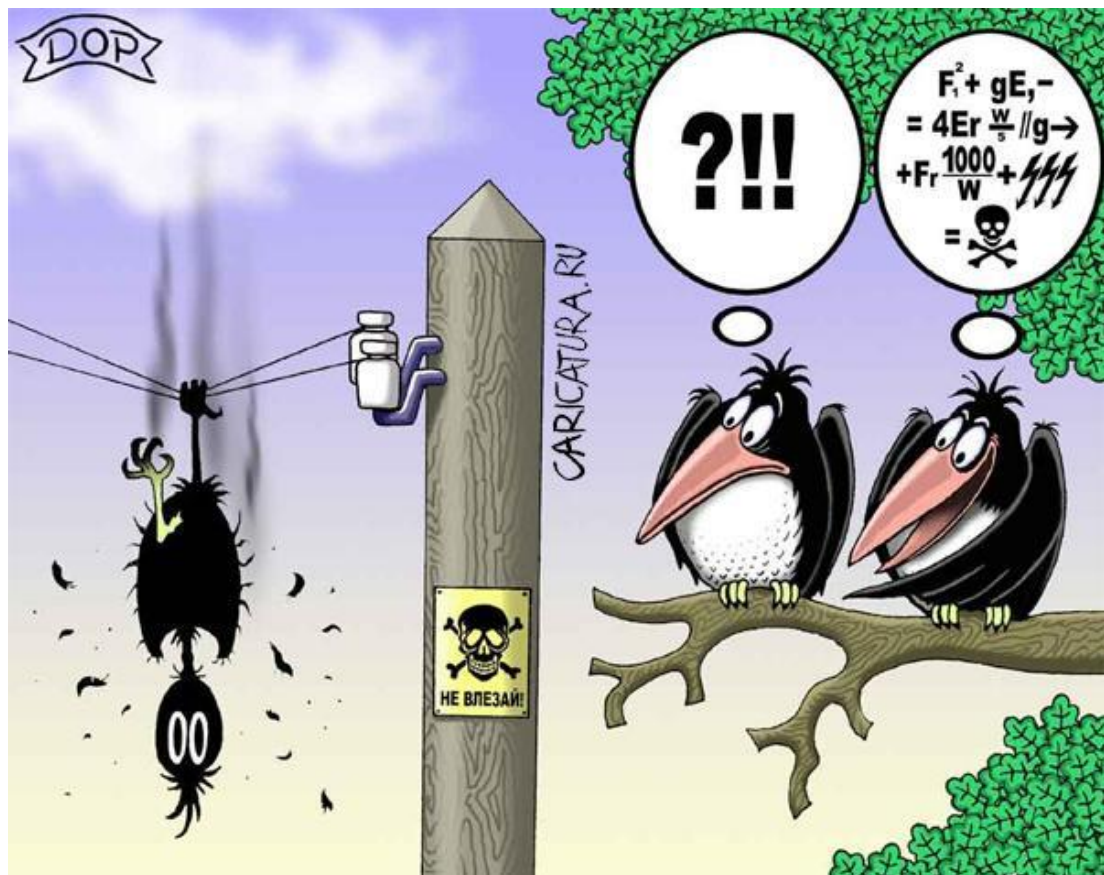
Area	Skill Ladder	Overview	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	
Creative Thinkers	Strategic Thinking	Strategic thinking is the process of defining a long-term vision for an organization, identifying the key challenges and opportunities, and developing a plan to achieve the vision. It involves analyzing the internal and external environment, setting clear goals, and allocating resources effectively.	Identify the organization's mission, vision, and values.	Analyze the internal and external environment.	Develop a long-term vision for the organization.	Identify the key challenges and opportunities.	Develop a strategic plan to achieve the vision.	Allocate resources effectively.	Monitor and evaluate the progress of the strategic plan.	Adjust the strategic plan as needed.	Communicate the strategic plan to all stakeholders.	Implement the strategic plan.
	Business Acumen	Business acumen is the ability to understand and analyze the business environment, including the market, competitors, and financial performance. It involves identifying opportunities and risks, and making informed decisions to drive business success.	Understand the business environment.	Analyze the market and competitors.	Identify opportunities and risks.	Make informed decisions to drive business success.	Develop a business plan.	Allocate resources effectively.	Monitor and evaluate the progress of the business plan.	Adjust the business plan as needed.	Communicate the business plan to all stakeholders.	Implement the business plan.
	Change Management	Change management is the process of preparing, enabling, and supporting individuals, teams, and organizations to adopt and sustain change. It involves identifying the need for change, developing a change plan, and implementing the plan effectively.	Identify the need for change.	Develop a change plan.	Implement the change plan.	Monitor and evaluate the progress of the change plan.	Adjust the change plan as needed.	Communicate the change plan to all stakeholders.	Implement the change plan.	Monitor and evaluate the progress of the change plan.	Adjust the change plan as needed.	Communicate the change plan to all stakeholders.
Effective Communicators	Writing Skills	Writing skills are the ability to communicate effectively through written text. It involves understanding the audience, organizing thoughts, and using clear and concise language to convey the message.	Understand the audience.	Organize thoughts.	Use clear and concise language.	Convey the message effectively.	Monitor and evaluate the progress of the writing process.	Adjust the writing process as needed.	Communicate the writing process to all stakeholders.	Implement the writing process.	Monitor and evaluate the progress of the writing process.	Adjust the writing process as needed.
	Public Speaking	Public speaking is the ability to communicate effectively in front of a group of people. It involves understanding the audience, organizing thoughts, and using clear and concise language to convey the message.	Understand the audience.	Organize thoughts.	Use clear and concise language.	Convey the message effectively.	Monitor and evaluate the progress of the public speaking process.	Adjust the public speaking process as needed.	Communicate the public speaking process to all stakeholders.	Implement the public speaking process.	Monitor and evaluate the progress of the public speaking process.	Adjust the public speaking process as needed.
	Teamwork	Teamwork is the ability to work effectively with others to achieve a common goal. It involves understanding the team's mission, identifying roles and responsibilities, and collaborating effectively to achieve the goal.	Understand the team's mission.	Identify roles and responsibilities.	Collaborate effectively to achieve the goal.	Monitor and evaluate the progress of the teamwork process.	Adjust the teamwork process as needed.	Communicate the teamwork process to all stakeholders.	Implement the teamwork process.	Monitor and evaluate the progress of the teamwork process.	Adjust the teamwork process as needed.	Communicate the teamwork process to all stakeholders.
Independent Enthusiasts	Problem Solving	Problem solving is the ability to identify and analyze a problem, and develop and implement a solution. It involves understanding the problem, identifying the root cause, and developing a plan to solve the problem.	Identify the problem.	Analyze the problem.	Develop a plan to solve the problem.	Implement the plan to solve the problem.	Monitor and evaluate the progress of the problem solving process.	Adjust the problem solving process as needed.	Communicate the problem solving process to all stakeholders.	Implement the problem solving process.	Monitor and evaluate the progress of the problem solving process.	Adjust the problem solving process as needed.
	Time Management	Time management is the ability to plan and organize time effectively to achieve goals. It involves understanding the goals, identifying the tasks, and allocating time to complete the tasks.	Understand the goals.	Identify the tasks.	Allocate time to complete the tasks.	Monitor and evaluate the progress of the time management process.	Adjust the time management process as needed.	Communicate the time management process to all stakeholders.	Implement the time management process.	Monitor and evaluate the progress of the time management process.	Adjust the time management process as needed.	Communicate the time management process to all stakeholders.
	Self-Motivation	Self-motivation is the ability to drive oneself to achieve goals without external pressure. It involves understanding the goals, identifying the challenges, and developing a plan to overcome the challenges.	Understand the goals.	Identify the challenges.	Develop a plan to overcome the challenges.	Implement the plan to overcome the challenges.	Monitor and evaluate the progress of the self-motivation process.	Adjust the self-motivation process as needed.	Communicate the self-motivation process to all stakeholders.	Implement the self-motivation process.	Monitor and evaluate the progress of the self-motivation process.	Adjust the self-motivation process as needed.
Reflective Learners	Self-Reflection	Self-reflection is the process of examining one's own thoughts, feelings, and actions. It involves identifying strengths and weaknesses, and developing a plan to improve oneself.	Examine one's own thoughts, feelings, and actions.	Identify strengths and weaknesses.	Develop a plan to improve oneself.	Implement the plan to improve oneself.	Monitor and evaluate the progress of the self-reflection process.	Adjust the self-reflection process as needed.	Communicate the self-reflection process to all stakeholders.	Implement the self-reflection process.	Monitor and evaluate the progress of the self-reflection process.	Adjust the self-reflection process as needed.
	Active Listening	Active listening is the process of fully concentrating on what is being said, and understanding the speaker's message. It involves identifying the speaker's needs, and responding appropriately.	Identify the speaker's needs.	Respond appropriately.	Monitor and evaluate the progress of the active listening process.	Adjust the active listening process as needed.	Communicate the active listening process to all stakeholders.	Implement the active listening process.	Monitor and evaluate the progress of the active listening process.	Adjust the active listening process as needed.	Communicate the active listening process to all stakeholders.	
	Emotional Regulation	Emotional regulation is the ability to manage one's emotions effectively. It involves understanding the emotions, identifying the triggers, and developing a plan to manage the emotions.	Understand the emotions.	Identify the triggers.	Develop a plan to manage the emotions.	Implement the plan to manage the emotions.	Monitor and evaluate the progress of the emotional regulation process.	Adjust the emotional regulation process as needed.	Communicate the emotional regulation process to all stakeholders.	Implement the emotional regulation process.	Monitor and evaluate the progress of the emotional regulation process.	Adjust the emotional regulation process as needed.
Self-Managers	Goal Setting	Goal setting is the process of identifying and defining specific, measurable, achievable, relevant, and time-bound goals. It involves understanding the organization's mission, identifying the key challenges and opportunities, and developing a plan to achieve the goals.	Understand the organization's mission.	Identify the key challenges and opportunities.	Develop a plan to achieve the goals.	Implement the plan to achieve the goals.	Monitor and evaluate the progress of the goal setting process.	Adjust the goal setting process as needed.	Communicate the goal setting process to all stakeholders.	Implement the goal setting process.	Monitor and evaluate the progress of the goal setting process.	Adjust the goal setting process as needed.
	Task Management	Task management is the ability to plan and organize tasks effectively to achieve goals. It involves understanding the goals, identifying the tasks, and allocating time to complete the tasks.	Understand the goals.	Identify the tasks.	Allocate time to complete the tasks.	Monitor and evaluate the progress of the task management process.	Adjust the task management process as needed.	Communicate the task management process to all stakeholders.	Implement the task management process.	Monitor and evaluate the progress of the task management process.	Adjust the task management process as needed.	Communicate the task management process to all stakeholders.
	Self-Motivation	Self-motivation is the ability to drive oneself to achieve goals without external pressure. It involves understanding the goals, identifying the challenges, and developing a plan to overcome the challenges.	Understand the goals.	Identify the challenges.	Develop a plan to overcome the challenges.	Implement the plan to overcome the challenges.	Monitor and evaluate the progress of the self-motivation process.	Adjust the self-motivation process as needed.	Communicate the self-motivation process to all stakeholders.	Implement the self-motivation process.	Monitor and evaluate the progress of the self-motivation process.	Adjust the self-motivation process as needed.
Team Workers	Teamwork	Teamwork is the ability to work effectively with others to achieve a common goal. It involves understanding the team's mission, identifying roles and responsibilities, and collaborating effectively to achieve the goal.	Understand the team's mission.	Identify roles and responsibilities.	Collaborate effectively to achieve the goal.	Monitor and evaluate the progress of the teamwork process.	Adjust the teamwork process as needed.	Communicate the teamwork process to all stakeholders.	Implement the teamwork process.	Monitor and evaluate the progress of the teamwork process.	Adjust the teamwork process as needed.	Communicate the teamwork process to all stakeholders.
	Communication	Communication is the ability to convey information effectively. It involves understanding the audience, organizing thoughts, and using clear and concise language to convey the message.	Understand the audience.	Organize thoughts.	Use clear and concise language.	Convey the message effectively.	Monitor and evaluate the progress of the communication process.	Adjust the communication process as needed.	Communicate the communication process to all stakeholders.	Implement the communication process.	Monitor and evaluate the progress of the communication process.	Adjust the communication process as needed.
	Problem Solving	Problem solving is the ability to identify and analyze a problem, and develop and implement a solution. It involves understanding the problem, identifying the root cause, and developing a plan to solve the problem.	Identify the problem.	Analyze the problem.	Develop a plan to solve the problem.	Implement the plan to solve the problem.	Monitor and evaluate the progress of the problem solving process.	Adjust the problem solving process as needed.	Communicate the problem solving process to all stakeholders.	Implement the problem solving process.	Monitor and evaluate the progress of the problem solving process.	Adjust the problem solving process as needed.





# Меняем STEM-модель

# Меняем подход к STEM



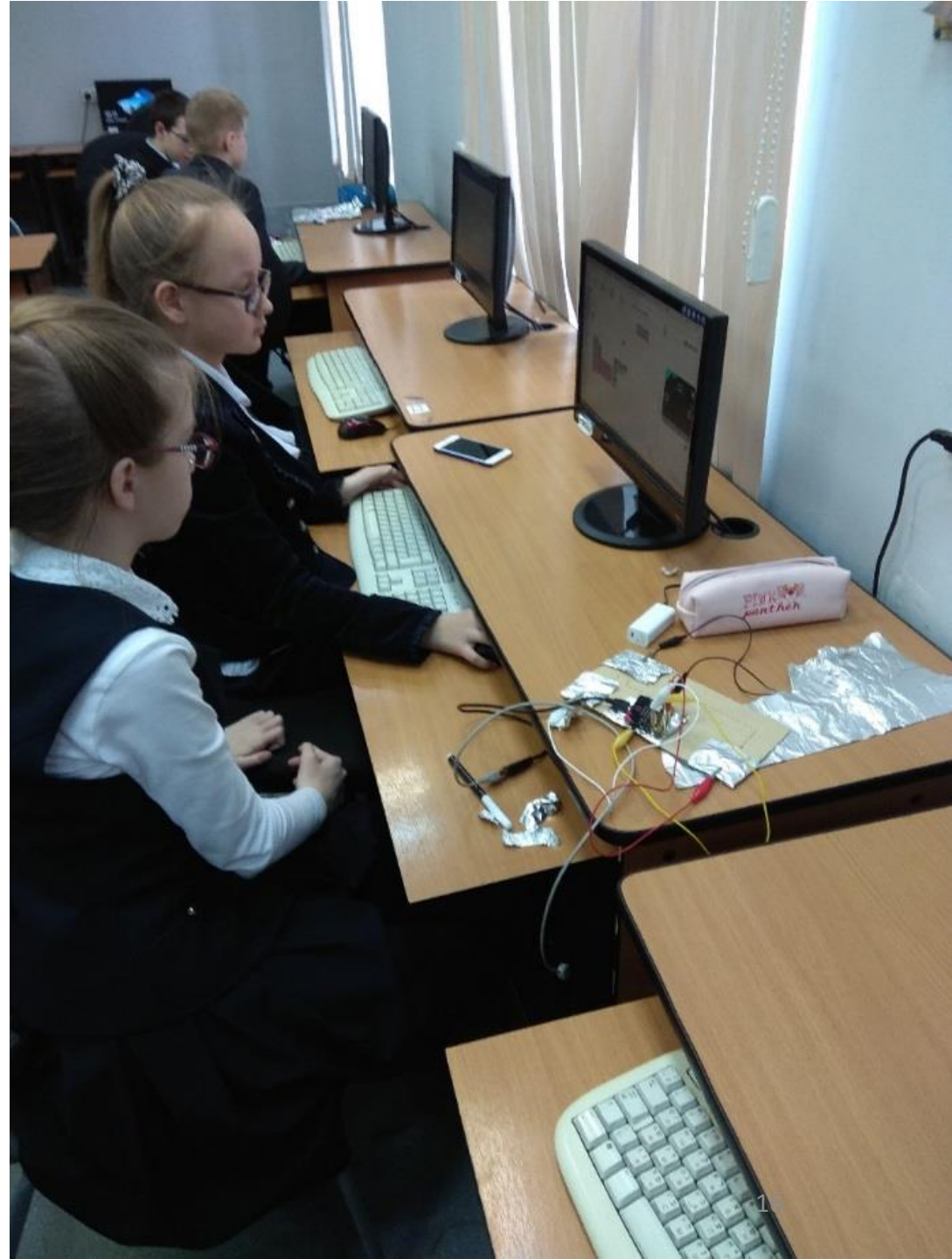


# Окружающий мир и STEM



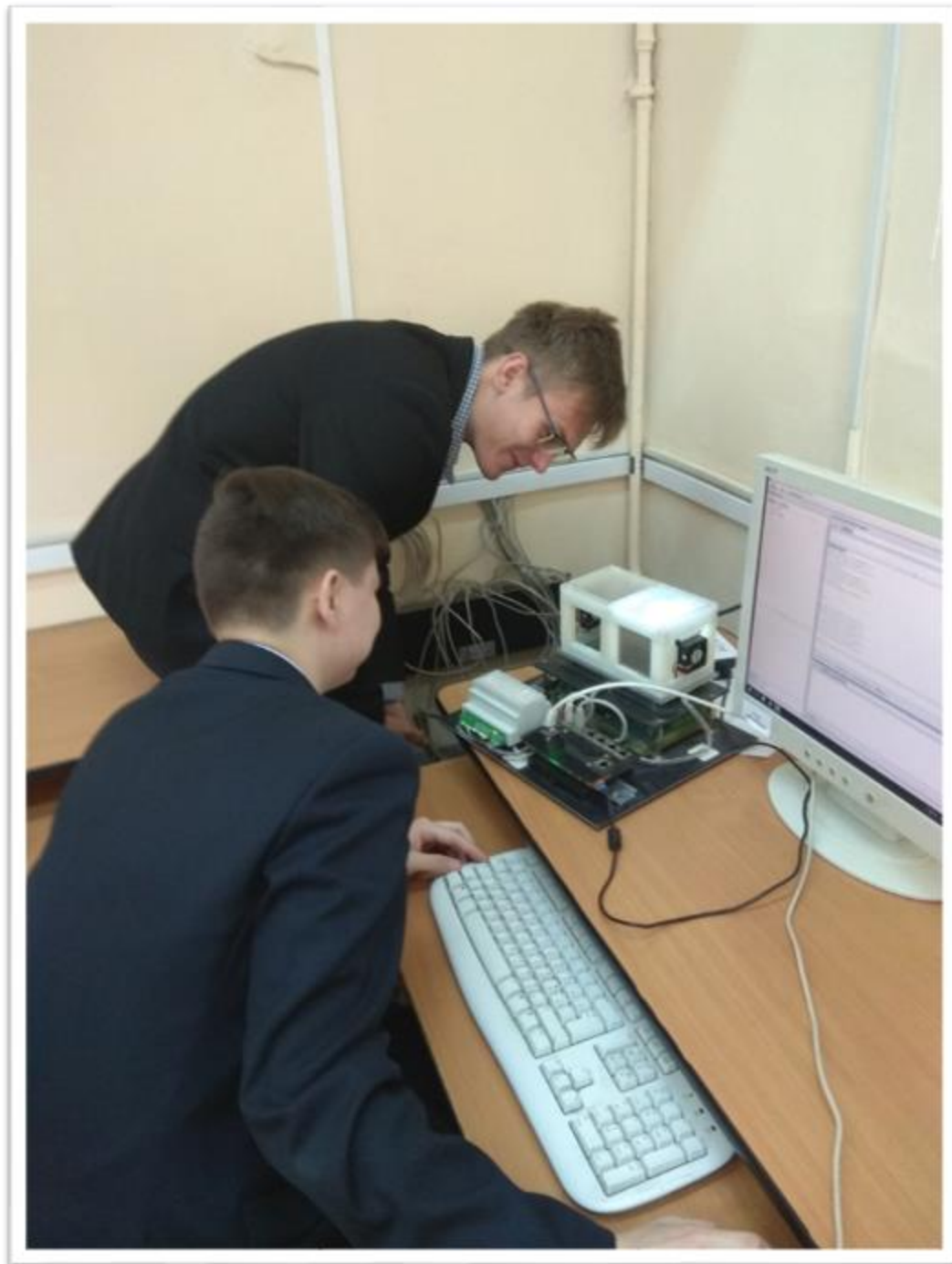


# Технология и STEM

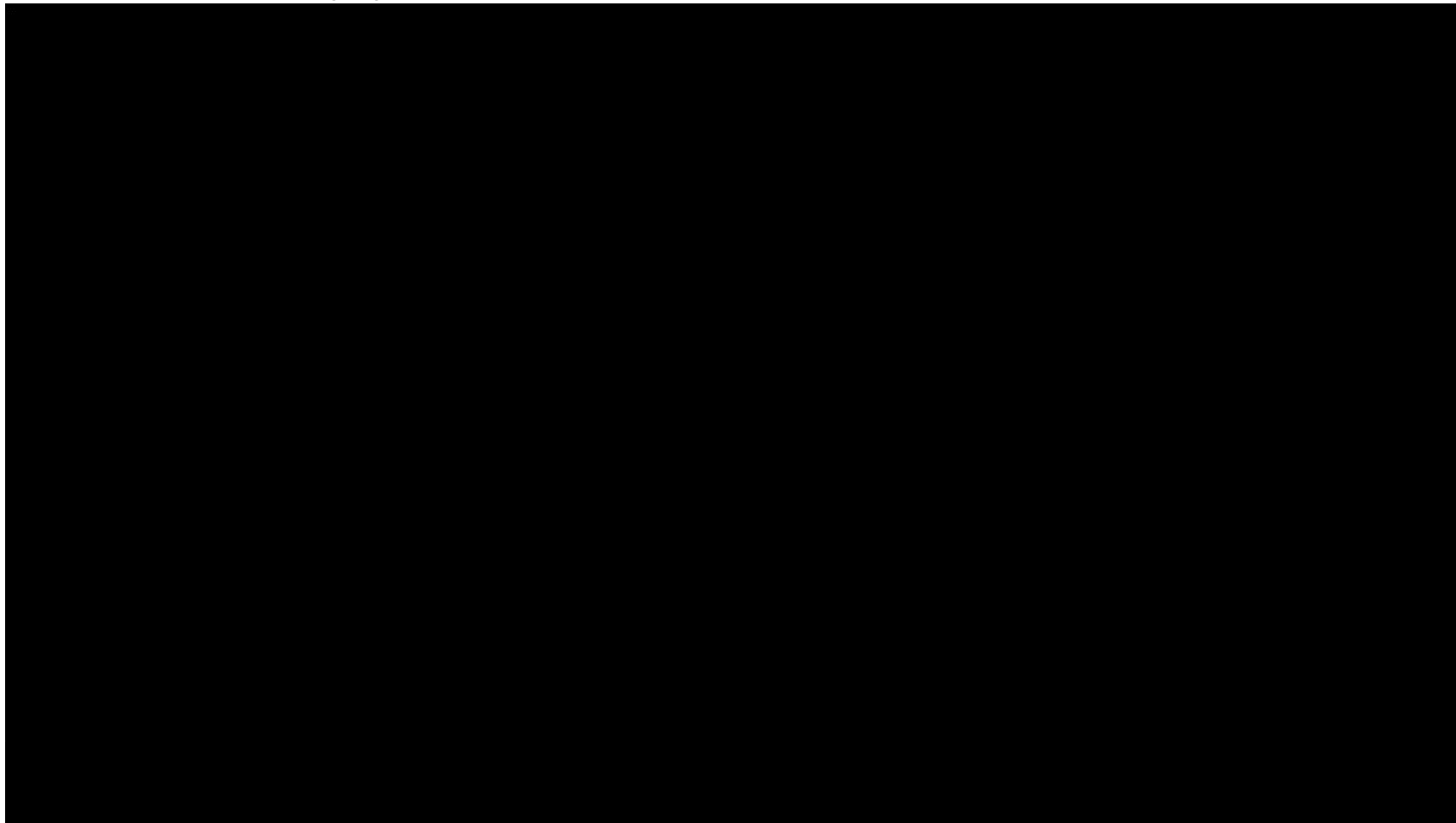








# Академия ORT-CISCO в школе



Спасибо за внимание!





# Грубая школьная модель...

