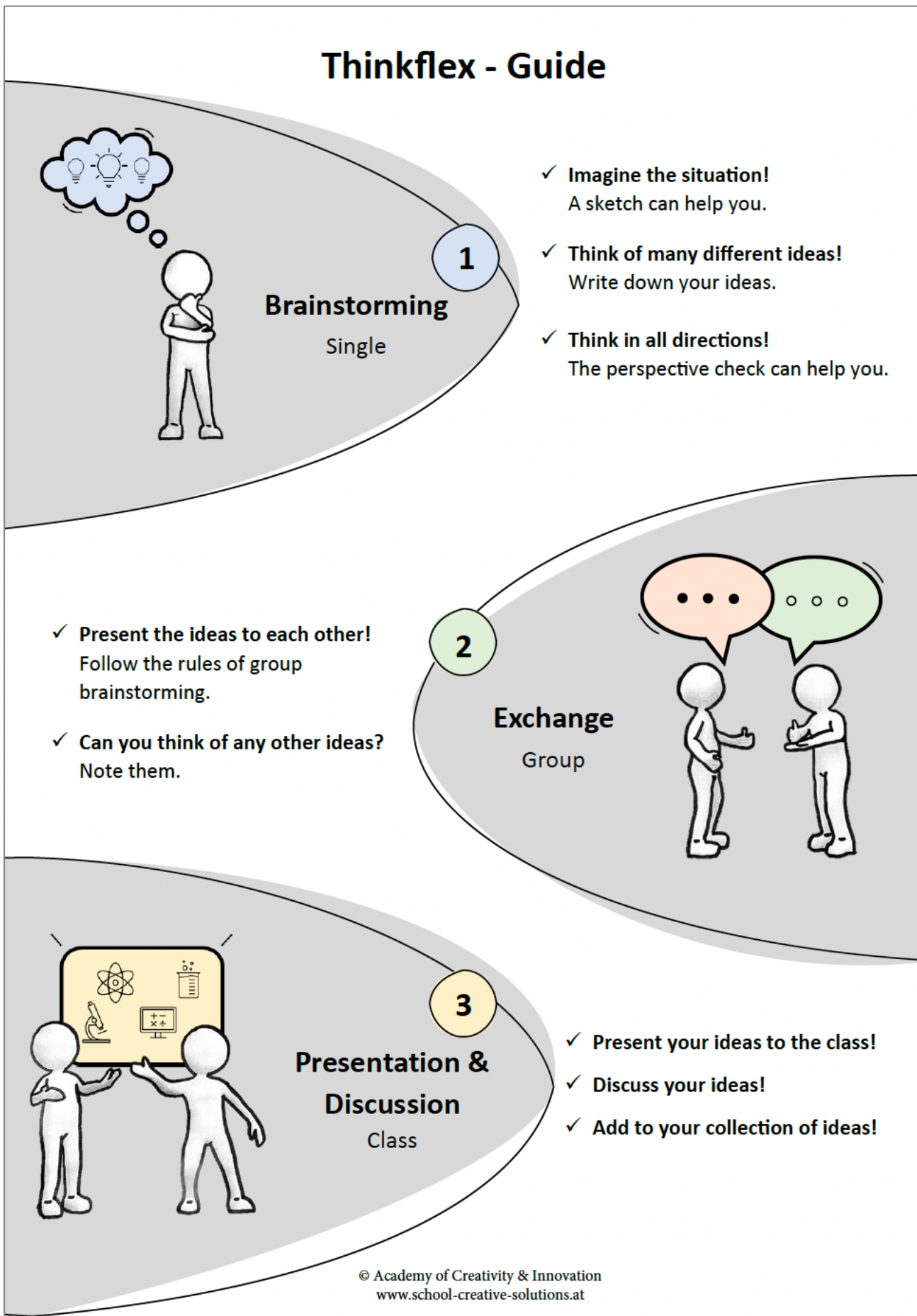


Figure S1: Worksheet to a Thinkflex task.



# Thinkflex

## Advantages & Disadvantages

### Fireworks

Some states are considering banning fireworks. Think about as many advantages and disadvantages of using fireworks as possible.

#### 1. Brainstorming

Imagine fireworks and people who are involved. A sketch can help you. Note your ideas in the table.

Advantages
Disadvantages

#### 2. Exchange

Form small groups and present the ideas to each other

#### 3. Presentation & Discussion

Present your ideas to the class and discuss them!

#### Additional Task: Generate ideas for alternative fireworks!

**PERSPECTIVE CHECK**

Look at the Topic from different perspectives:

Sensory impressions

People or age groups

Times


Plants or animals

Place or point of view

Advantages or disadvantages

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Figure S2: Worksheet to a Morphological Analysis.



1

## Morphological Analysis

### Introduction

THE PROCESS IS DIVIDED INTO 4 PHASES:

**Phase I:**

The problem is formulated!

**Phase II:**

The problem is analyzed and broken down into its individual parameters.

PARAMETER	Characteristic-1	Characteristic-2	Characteristic-3
1			
2			
3			


**Phase III:**

For each parameter, as many characteristics as possible are then searched for.

**Phase IV:**

Individual characteristics are selected for implementation!

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2

## THE THINK TANK AT MY SCHOOL

**PROBLEM STATEMENT:**

*How do I manage to set up a think tank (team of people) in my school that regularly takes on real problems and looks for creative solutions and implementations?*


PARAMETER	COLLECTION OF CHARACTERISTICS
<b>PERSON</b> Who else could work in the think tank?	
<b>PLACE</b> Where could the think tank carry out its activities?	
<b>RECRUITMENT</b> How do I find people in the school who would like to be part of the think tank?	
<b>MOTIVATION</b> What opportunities for motivation or rewards could there be for members of the think tank?	

These are my next steps for building a think tank at my school:

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Figure S3: Worksheet to an APIFOS task.



1

## APIFOS

**ANALYZE PRODUCT → IDENTIFY FLAWS → OFFER SOLUTIONS**

APIFOS helps to uncover weaknesses, that other people overlook.  
Targeted search for improvement of a product or a service.

---

### 1. ANALYSE THE PRODUCT

The product is examined carefully, analytically and in a non-judgemental way.  
The results are noted in a table.

The following questions are helpful:

- *What is its shape?*
- *What material is the object made of?*
- *What properties does the object have?*
- *What is its typical purpose?*

---

### 2. IDENTIFY FLAWS

Search for obvious problems as well as hidden weaknesses.  
Results are entered into a table.

The following questions are helpful for this:

- What causes problems with the item?
- What can my item actually not do, although it would be useful?
- What would be useful additional functions?


---

### 3. OFFER SOLUTIONS

Some weaknesses are selected from the table and different solutions are offered for them.

**NOTES**  
The solutions are not yet evaluated according to feasibility.  
The more solutions you can offer, the better.

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2

## APIFOS

**ANALYZE PRODUCT → IDENTIFY FLAWS → OFFER SOLUTIONS**

### 1. Analyze your school's bicycle parking space!

For example size, location, equipment, etc.

### 2. Look for hidden weaknesses!

- a. What is not ideal?
- b. What else should the parking space be able to do?
- c. What does it not yet do?

Imagine different situations with different people in your mind's eye!

### 3. Offer solutions for the weaknesses!


Look for solutions that would remedy the weaknesses.

Sketch an optimized bicycle parking space:


### 4. Present your innovative bicycle parking space!

**PERSPECTIVE CHECK**

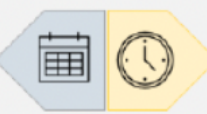
Look at the Topic from different perspectives:




Sensory impressions




People or age groups



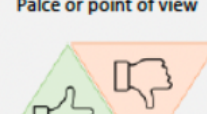
Times



Plants or animals



Place or point of view



Advantages or disadvantages

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Figure S4: Example of a card from the "Mission:Possible" card set.

# SUCCESSSES

HOW CAN WE SEE THAT WE ARE ON THE  
WRIGHT TRACK?



# SUCCESSSES

THIS PHASE SERVES TO MONITOR THE PROJECT.

THE SUCCESSSES BECOME VISIBLE AND ARE  
COMPARED WITH THE INTENDED GOAL.

MAKING THE LARGE AND SMALL SUCCESSSES VISIBLE  
AND RECOGNISING THEM STRENGTHENS AND  
MOTIVATES A TEAM.

