3.4. Scoring for imagery transformation

The imagery transformation scale measures the level of ability to modify the mental images generated. Assessment of TCIA products also makes it possible to analyze basic operations of transforming visual images, such as multiplication or increasing the numbers of a particular element of an image, hyperbolization or exaggerated distortion of proportions with the use, for instance, of exposing a certain aspect of the image, or amplification, or adding detail to the image (see Chapter 6). Table 3 contains detailed criteria for the assessment on this scale.
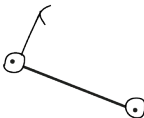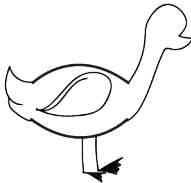
Table 3

Assessment criteria on the imagery transformation scale of the TCIA

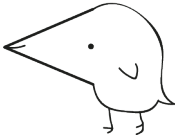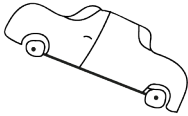| IMAGERY TRANSFORMATION	Assessment criteria
Low level (0 points)	• Precise reproduction of the initial object. • Simple completion of the initial object or its simplification. • Multiplication of the initial object.
Moderate level (1 point)	• Completion of the initial object (reintegration) and its simple modification (e.g., enriching, detailing the image). • Reproduction, completion or multiplication of the initial object and adding to it a relatively independent object/objects. • A simple metamorphosis (transformation into something completely different) of the initial object (e.g., a change of one thing into a different thing, a change of a living organism into another living organism).
High level (2 points)	• Complex modification of the initial object – adding detail to many of its aspects. • Modification of the initial object (simple or complex) and adding to it a relatively independent object/objects. • Modification indicating a surprising combination of 2 or more initial objects belonging to different domains. • Clear dynamization of the initial object, its completion or modification. • Complex metamorphosis (transformation into something completely different) of the initial object often with philosophical, metaphorical, abstract dimension (e.g., change of an object into a general concept).
	Note. Transformations may take the form of figural transformation (transformation of images) and/or semantic transformation (transformations of words and their meanings).

6.3. EXAMPLES OF SCORING FOR IMAGERY TRANSFORMATION

Low level (0 points)

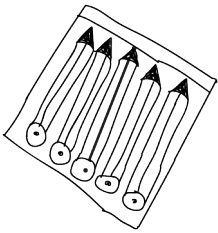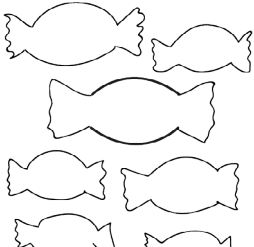- **Precise reproduction of the initial object.**

| Selected mental image: *A scooter* | Selected mental image: *A goose* | Selected mental image: *A hairdressing comb* |
| My mental image: *A scooter* | My mental image: *A goose* | My mental image: *A hairdressing comb* |

- **Simple completion of the initial object or its simplification.**
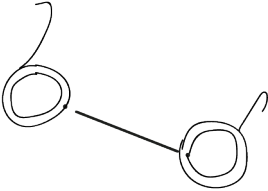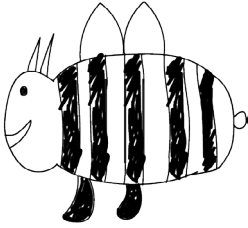
| Selected mental image: *A bird's beak* | Selected mental image: *Car chassis* | Selected mental image: *Little flower stalks* |
| My mental image: *A bird* | My mental image: *A car* | My mental image: *Three little flowers* |

- **Multiplication of the initial object.**

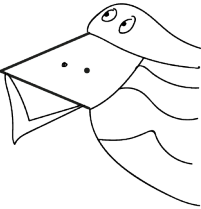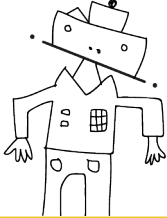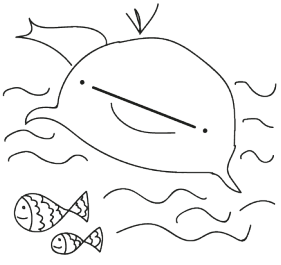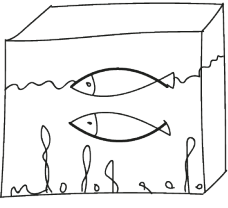|		
Selected mental image: *A crayon* My mental image: *A set of crayons*	Selected mental image: *Two flower pots* My mental image: *A collection of flower pots*	Selected mental image: *Candy* My mental image: *A fistful of candy*

Moderate level (1 point)

- **Simple modification of the initial object—adding detail to its single and simple aspect, most often its structure and appearance.**

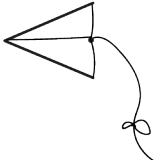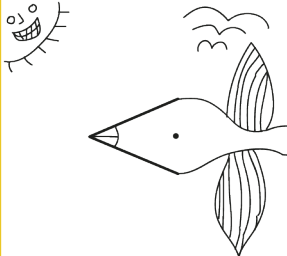|		
Selected mental image: *Glasses* My mental image: *Rose-tinted spectacles*	Selected mental image: *Legs* My mental image: *A woman's legs*	Selected mental image: *A bee* My mental image: *An obese bee*

- **Completion of the initial object (reintegration) and its simple modification (e.g., enriching, detailing the image).**

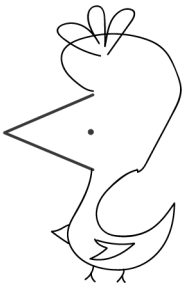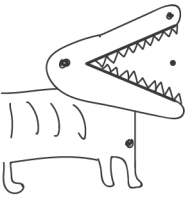|		
Selected mental image: *A bird's beak* My mental image: *A pelican's head*	Selected mental image: *A stem* My mental image: *A fern flower*	Selected mental image: *Facial expression* My mental image: *A robo-human*

- **Reproduction, completion, or multiplication of the initial object, and adding to it a relatively independent object/objects.**

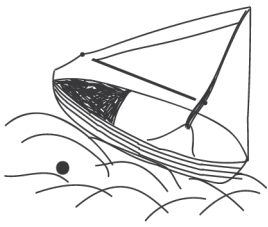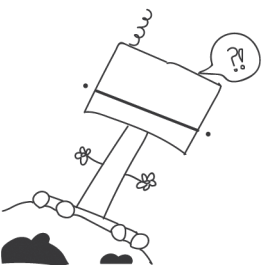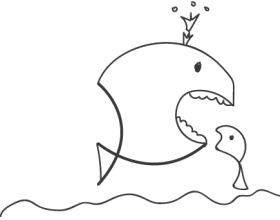|		
Selected mental image: *Whale's eyes* My mental image: *A whale and food*	Selected mental image: *A tiny fish* My mental image: *Tiny fish in the aquarium*	Selected mental image: *A part of a ladybird* My mental image: *A ladybird on the leaf*

- **Simple metamorphosis (transformation into something completely different) of the initial object (e.g. a change of one thing into a different thing, a change of a living organism into another living organism).**

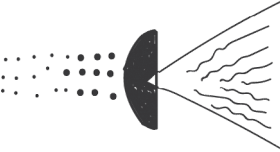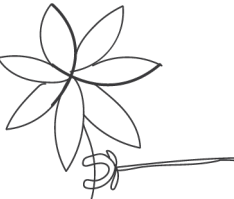|		
Selected mental image: *A bird's beak* My mental image: *A kite*	Selected mental image: *A fish* My mental image: *A flying bird*	Selected mental image: *A letter R* My mental image: *An octopus*

- **Complex modification of the initial object – adding detail to many of its aspects.**

Selected mental image: **A bird's beak** My mental image: **A dressed-up Easter chicken**	Selected mental image: **Gunsight** My mental image: **A sniper's rifle (final seconds)**	Selected mental image: **A maw** My mental image: **A maw of an amusing crocodile from a kids' story**

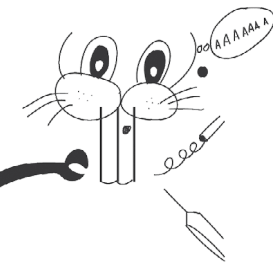- **Modification of the initial object (simple or complex) and adding to it a relatively independent object/objects.**

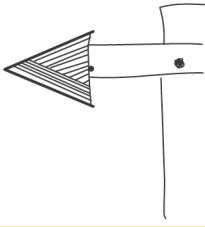| Selected mental image: **A sail** My mental image: **A boat drifting on calm seas**	Selected mental image: **An alien** My mental image: **A Martian on planet Earth**	Selected mental image: **A whale** My mental image: **A baby whale called Irritabe is eating Ed the Flatfoot**

- **Modification indicating a surprising combination of 2 or more initial objects belonging to different domains.**

| Selected mental image:
Eyes, an applicator
My mental image:
Universal medicine for sleeplessness | Selected mental image:
A mountain, a road, an open mouth
My mental image:
A fatigue absorber | Selected mental image:
Flower petals, outstret-ched hands
My mental image:
An automatic flower collector |

- **Clear dynamization of the initial object, its completion, or modification.**
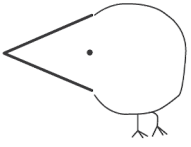
| Selected mental image:
A figure
My mental image:
Praying to a puppet | Selected mental image:
Bunny's teeth
My mental image:
A bunny at a dentist's | Selected mental image:
A car
My mental image:
An action movie |

- **Complex metamorphosis (transformation into something completely different) of the initial object often with philosophical, metaphorical, abstract dimension (e.g., a change of a thing into a general concept).**

Selected mental image: ***An indicator*** My mental image: ***A machine that shows happy solutions in life***	Selected mental image: ***A clover*** My mental image: ***A happy life is a choice, not a coincidence***	Selected mental image: ***Letters*** My mental image: ***An automatic leaf collector***

The scoring of image transformation criteria refers to basic operations of transforming visual imagery, such as:

- **reintegration or renewed image integration; for instance, based on noticing one of its fragments;**

Selected mental image: ***A beak***
My mental image: ***A bird***

- **bisociation, or combination of two distant images;**
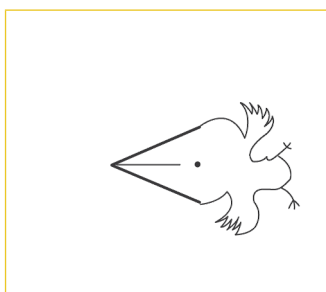
Selected mental image: ***Cosmic radiation, a way***
My mental image: ***Wandering in the skies***

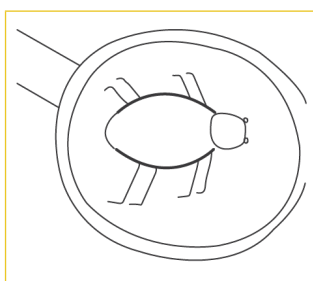- **multiplication, or redoubling of any element of an image;**
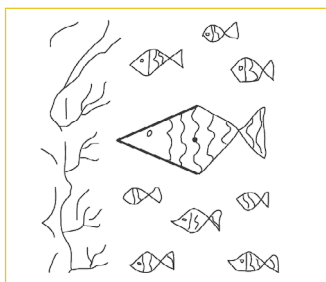
Selected mental image: *A fish*
My mental image: *A school of fish*

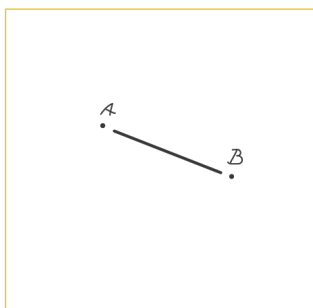- **hyperbolization, or exaggerated distortion of proportions, exposing an element of an image;**

Selected mental image: *A beak*
My mental image: *A beaker – a new species of birds with enormous beaks*

- **majorization, or relatively uniform image enlargement;**

Selected mental image: *A maggot*
My mental image: *An enlarged ant*
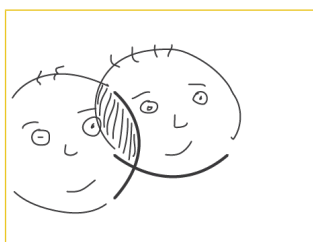
- **schematization, or image simplification;**

Selected mental image: *A map*
My mental image: *A ride from point A to point B*

- **amplification, or enrichment of an image with detail;**

Selected mental image: *A piece of watermelon*
My mental image: *A girl is eating a sweet watermelon on the beach*

- **metaphorization, or expressing an image or a term with the use of symbols;**

Selected mental image: *Faces*
My mental image: *Friendship*

- **animization, or ascribing to certain inanimate objects or plants the manifestations of life and abilities to feel, which are characteristic of human beings;**
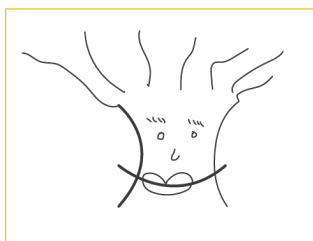
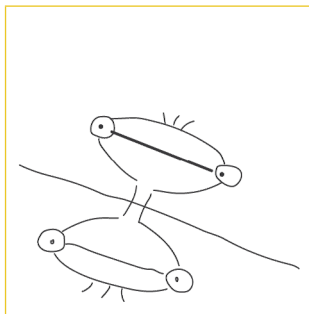Selected mental image: *A tree*
My mental image: *A smiling tree*

- **conversion, or reversing the direction of the course of action or activity, color inversion of the object;**
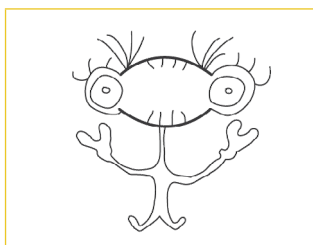
Selected mental image: *An alien*
My mental image: *A blue alien*

- **rotation or spatial inversion, turning an image around a particular axis;**

Selected mental image: *A frog*
My mental image: *A frog in a mirror reflection*

- **time manipulation, or imagining a slower or faster course or change of time;**

Selected mental image: *A snowman*
My mental image: *A snowman in the summertime*

- **animation, or visual ascription of some dynamic properties to inanimate elements of an image in relation to the remaining elements of the image;**

Selected mental image: *Letters*
My mental image: *Learning to read*

- **metamorphosis, or evolutionary and purposeful change of an initial object in order to create a new and autonomous object (Młodkowski, 1998).**
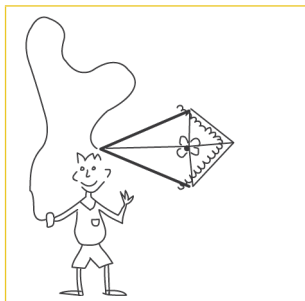
Selected mental image: ***Part of a geometric figure***
My mental image: ***Flying a kite***