



## WORKSHEET

### I. LIGHT AND DARKNESS

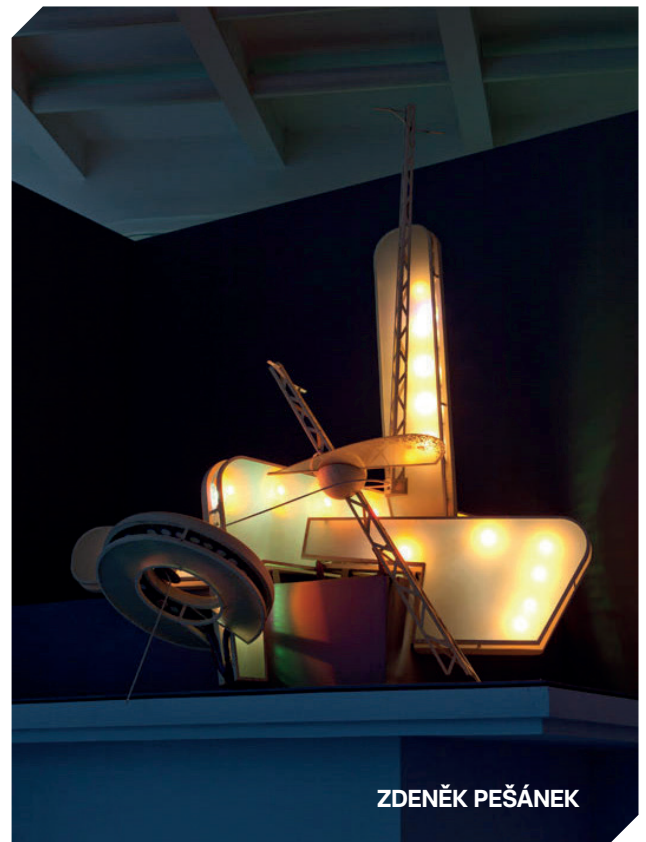
Light has always been a part of our lives—not only in everyday life, but also in art. Signal Space demonstrates how light can be combined with modern technology, but light installations are nothing new—artists have been experimenting with them for over a century! Light has always defined atmosphere, form, and color. In churches, it symbolized the divine presence; in painting, it helped create dramatic scenes. And science tells us that the colors around us are nothing more than the interplay of light at different frequencies, which our brain interprets as shades. In short: without light, we wouldn't be able to see—and without light, there would be no art.

### II. DISCOVER THE ARTIST THE WHOLE WORLD KNOWS!

**Have you heard of Zdeněk Pešánek?** This visionary was ahead of his time and became a pioneer of light and kinetic art. As early as the 1920s, he combined art with technology and began working with light as his primary artistic medium. His most famous work—a light-kinetic sculpture at the Edison Substation in Prague—was unveiled in 1930 and became the very first sculpture of its kind in a public space anywhere in the world. It featured 420 colored light bulbs, whose rhythm was controlled by a pneumatic piano! The work celebrated the dawn of the electrical age and technological progress. Although the original sculpture has not survived, a reconstruction has been created based on photographs and technical descriptions—a smaller, yet equally fascinating tribute to the Czech genius admired by the whole world.

#### TASK 1

**LIGHT DETERMINES WHAT—IF ANYTHING—WE SEE.** Take 5–10 different self-portraits (selfies) so that each photo has a distinctly different atmosphere, mood, or expression. Don't use facial expressions or your favorite apps; work only with light and its possibilities.



#### TASK 2

**ZDENĚK PEŠÁNEK WORKED WITH PUBLIC SPACES—JUST LIKE TODAY'S WRITERS AND GRAFFITI ARTISTS.** Design your own light graffiti (or another form of art for public spaces). You can use collage, drawing, painting, or even actual light elements.

### III. LIGHT AND ART THAT SHINES

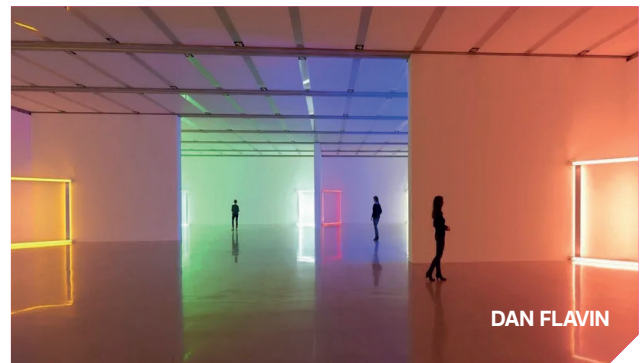
Minimalist art embraces simplicity—squares, circles, or clean lines. Artists such as Kazimir Malevich, Sol LeWitt, and Jenny Holzer sought beauty in precision, tranquility, and order. Less is often more—which is why minimalism frequently makes use of empty space to highlight the form itself. Artists who began creating directly with light pushed the boundaries even further. Dan Flavin, for example, transformed ordinary fluorescent lights into art objects and created entire rooms filled with colored light. Similarly, James Turrell and Olafur Eliasson use light to create an atmosphere that viewers can literally “step into.” Art that shines demonstrates that light, too, can be a medium—and that sometimes a single ray is enough to create a powerful experience.



#### TASK 3

##### TRY CREATING A MINIMALIST PIECE.

Use only two colors placed side by side—these can be colored paper, fabric, or other materials. The result might resemble a flag, corporate branding, or an abstract landscape.



### IV. TYPES OF LIGHT ART TODAY

#### VIDEO MAPPING

Images projected onto buildings or other irregular surfaces conform precisely to their shape. This creates the impression that the facades are moving, changing, and coming to life.

#### LIGHT INSTALLATIONS

Artistic objects that use light as their primary medium. They may be static or dynamic, and may respond to their surroundings or the passage of time.

#### IMMERSIVE PROJECTIONS

Projections that surround the viewer from all sides and draw them into a world of light. They offer an experience that engages all the senses.

#### INTERACTIVE ART

Works that come to life through the audience – responding to movement, touch, or sound using sensors and modern technologies.

**TASK 4**

**LOOK AROUND YOU—CAN YOU FIND AN EXAMPLE FROM EVERYDAY LIFE FOR EACH TYPE OF LIGHT ART LISTED?**

Write them down. And which type would interest you the most if you could be a light designer or artist?

## V. HOW DO LIGHT INSTALLATIONS WORK? COME TO SIGNAL SPACE TO FIND OUT!

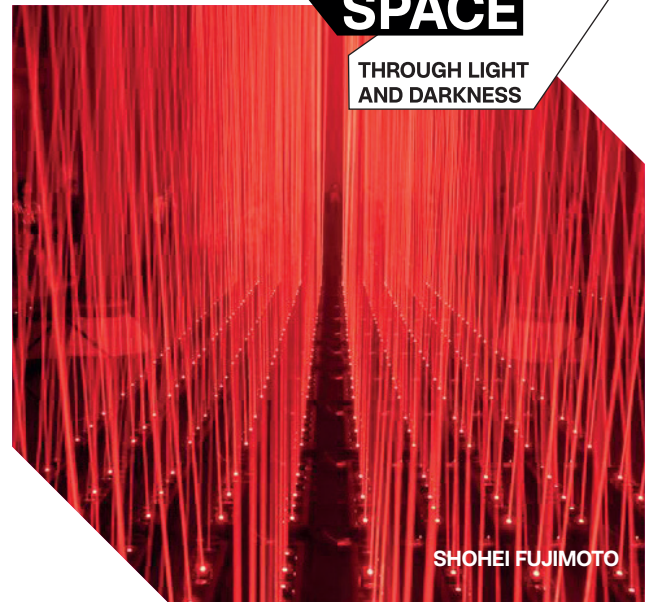
Each work offers a different perspective on the world around us—on a future that is not far off, but is taking shape right now through our decisions, emotions, and daily habits. One moment you find yourself in an illusion that changes with every step. The next, you enter a space that reacts both precisely and unpredictably at the same time. Here, light paints thoughts, and sound dominates the space. These installations are not just objects—they are living organisms. They are constantly changing, responding to viewers, and creating a unique moment that brings together technology, art, and our own presence.

### SHOHEI FUJIMOTO — INTANGIBLE #FORM

Shohei Fujimoto explores the boundaries of perception through light, rhythm, and invisible structures. What is reality if only what we can see with our eyes exists? In the installation *Intangible #Form*, the Japanese artist uses laser beams to create delicate, ethereal lines. The space comes into being only in our minds—from pure light and movement. The work evokes a visualization of the thought processes unfolding right before our eyes.

### ONFORMATIVE — MEANDERING RIVER

The Berlin-based studio onformative weaves together data, emotions, and algorithms into poetic visual systems. The installation *Meandering River* translates the movement of rivers into generative



images and music composed by artificial intelligence. Here, natural currents resonate with data streams, revealing that even within precise calculations, chance and silence lie hidden. The viewer enters a digital landscape that transforms in real time, inviting contemplation of the slow, continuous flow.

### MARKOS KAY — ABIOGENESIS

London-based artist Markos Kay combines science, visual art, and generative algorithms. In his work *aBiogenesis*, he simulates the emergence of life from chaos—more complex forms arise from simple structures. The algorithm creates an image reminiscent of scientific micrographs as well as abstract painting. The work raises questions about the origins of life and transformation. It reminds us that chaos can also be the seed of a new order.

