



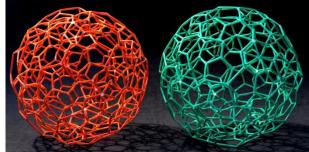
Introduction of 4D Frame

For Free Imagination and Infinite creativity



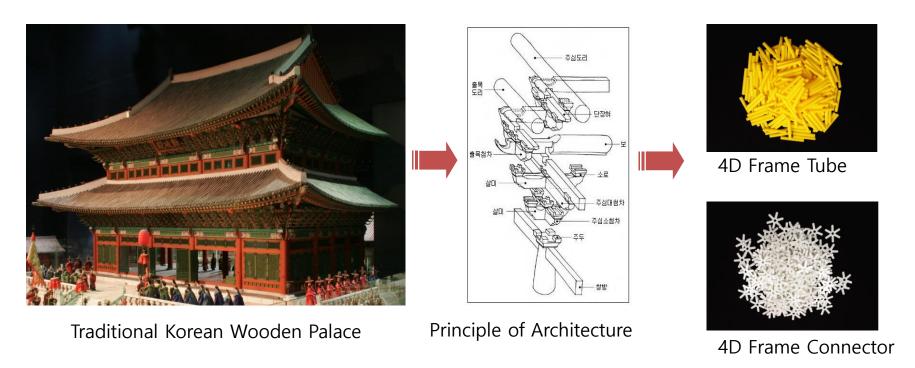






The Brand: 4D Frame

- The 4Dframe educational modelling kit is based upon the analysis of building techniques utilized in the construction of Korea's traditional, wooden buildings, in which no any nails have been used.
- ❖ 4Dframe has been proved to be a very appropriate tool for developing various skills in the transdisciplinary framework of STEAM learning.

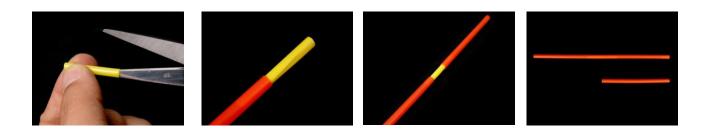




Character: Flexibility



Bend, Cut & Connect!



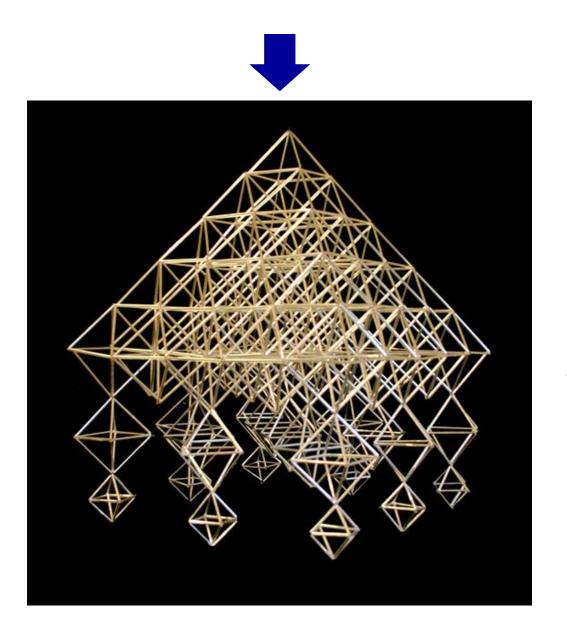


Character: Infinite Expansion





Character: Infinite Expansion



The traditional Nordic christmas decoration: the himmeli





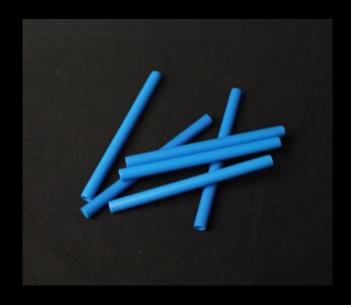












Tubes



Connectors



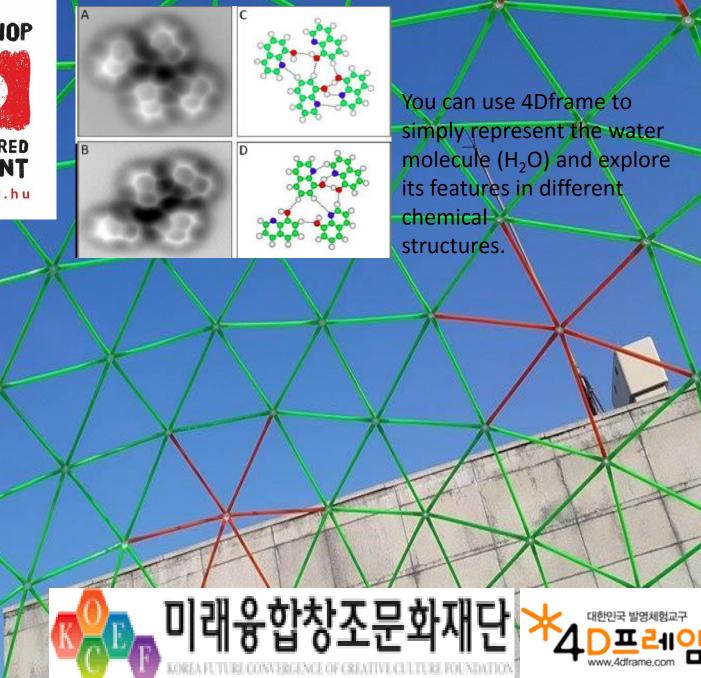
THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

www.experienceworkshop.hu



VISUALITY & Mathematics

EXPERIENTIAL EDUCATION OF MATHEMATICS THROUGH VISUAL ARTS, SCIENCES AND PLAYFUL ACTIVITIES





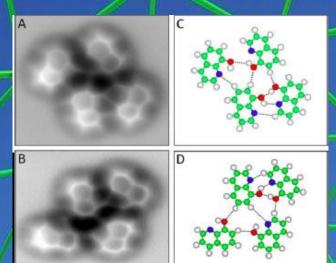
THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

www.experienceworkshop.hu

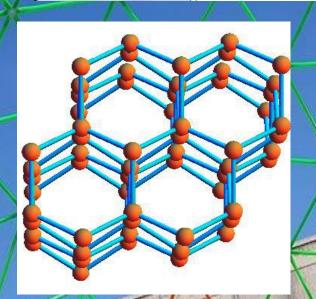


VISUALITY & Mathematics

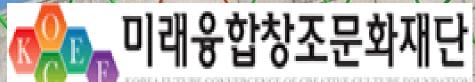
EXPERIENTIAL EDUCATION
OF MATHEMATICS THROUGH
VISUAL ARTS, SCIENCES
AND PLAYFUL ACTIVITIES



You can use 4Dframe to simply represent the water molecule (H₂O) and explore its features in different chemical structures.



....or you can show how the water's molecular structure look a like when it is freezing:







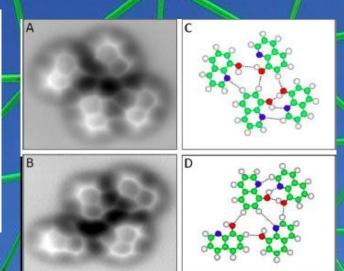
THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

www.experienceworkshop.hu

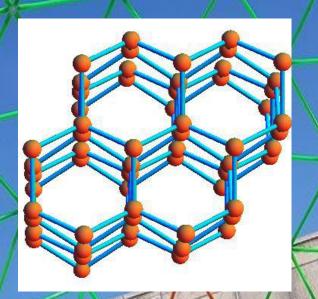


VISUALITY & Mathematics

EXPERIENTIAL EDUCATION
OF MATHEMATICS THROUGH
VISUAL ARTS, SCIENCES
AND PLAYFUL ACTIVITIES

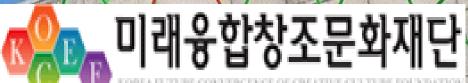


You can use 4Dframe to simply represent the water molecule (H₂O) and explore its features in different chemical structures.



....or you can show how the water's molecular structure look a like when it is freezing:

the water molecules in an ice crystal form themselves into a six-sided lattice.







THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

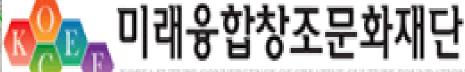
www.experienceworkshop.hu



VISUALITY & Mathematics

EXPERIENTIAL EDUCATION OF MATHEMATICS THROUGH VISUAL ARTS, SCIENCES AND PLAYFUL ACTIVITIES











THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

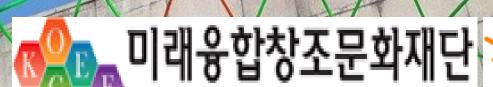
www.experienceworkshop.hu



When we see a beautiful winter landscape, with white mountain tops and ski slopes, we know that **snow** has fallen. **But what is snow?**

Snow is "solid" rain.
It forms when fine drops of very cold water attach themselves to dust particles or to bacteria and then freeze.

This situation occurs within clouds, at or below -12° Celcius.



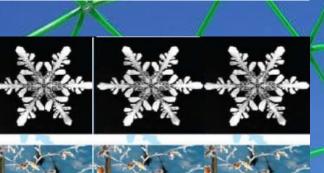






THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

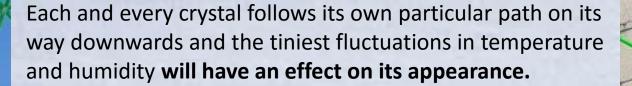
www.experienceworkshop.hu

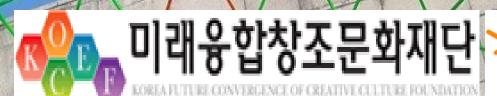


The surrounding **temperature** and humidity influence how each **crystal** develops.

If it is **very cold**, with a **high level of humidity**, **six-sided hollow columns** will form.

If the weather is warmer, sixsided stars will appear.









THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

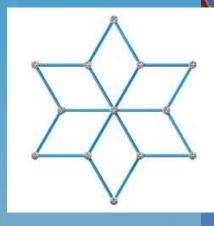
www.experienceworkshop.hu



The surrounding **temperature** and humidity influence how each **crystal** develops.

If it is very cold, with a high level of humidity, six-sided hollow columns will form.

If the weather is warmer, sixsided stars will appear.





Each and every crystal follows its own particular path on its way downwards and the tiniest fluctuations in temperature and humidity will have an effect on its appearance.

🌇 미래융합창조문화재단





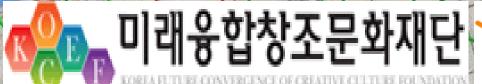


THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

www.experienceworkshop.hu

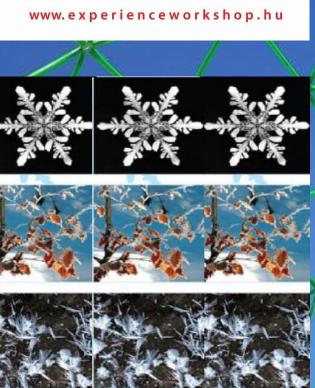




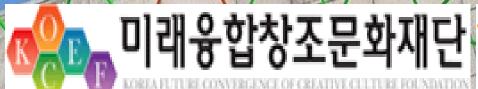










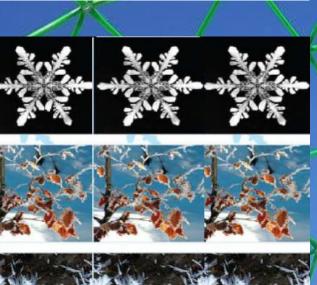




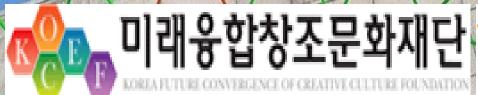


THE EXPERIENCE-CENTERED MATH/ART MOVEMENT

www.experienceworkshop.hu









Work in pairs or in small groups! Work as a team of engineers!

You need to solve a given problem within a given amount of time, based on a given amount of resources:

- Set goals
- Make plans
- Make tests
- Record the thinking / design process
- Do more with less



Interested in STEAM? Looking for support in connecting mathematics & art in education? Do you have a good idea?

Contact us: info@experienceworkshop.org

Website: www.experienceworkshop.org

Facebook: www.facebook.com/experienceworkshop.math.art