

CREATIONS Toolkit

This section of the CREATIONS Toolkit will guide you through how to use the CREATIONS wheel and Honeycombs as a resource for planning the CREATIONS features and the Arts into your science enquiry. You will be guided through an example activity, to demonstrate this as a potential starting point for your own planning.

What is the CREATIONS creativity wheel and how to use it?

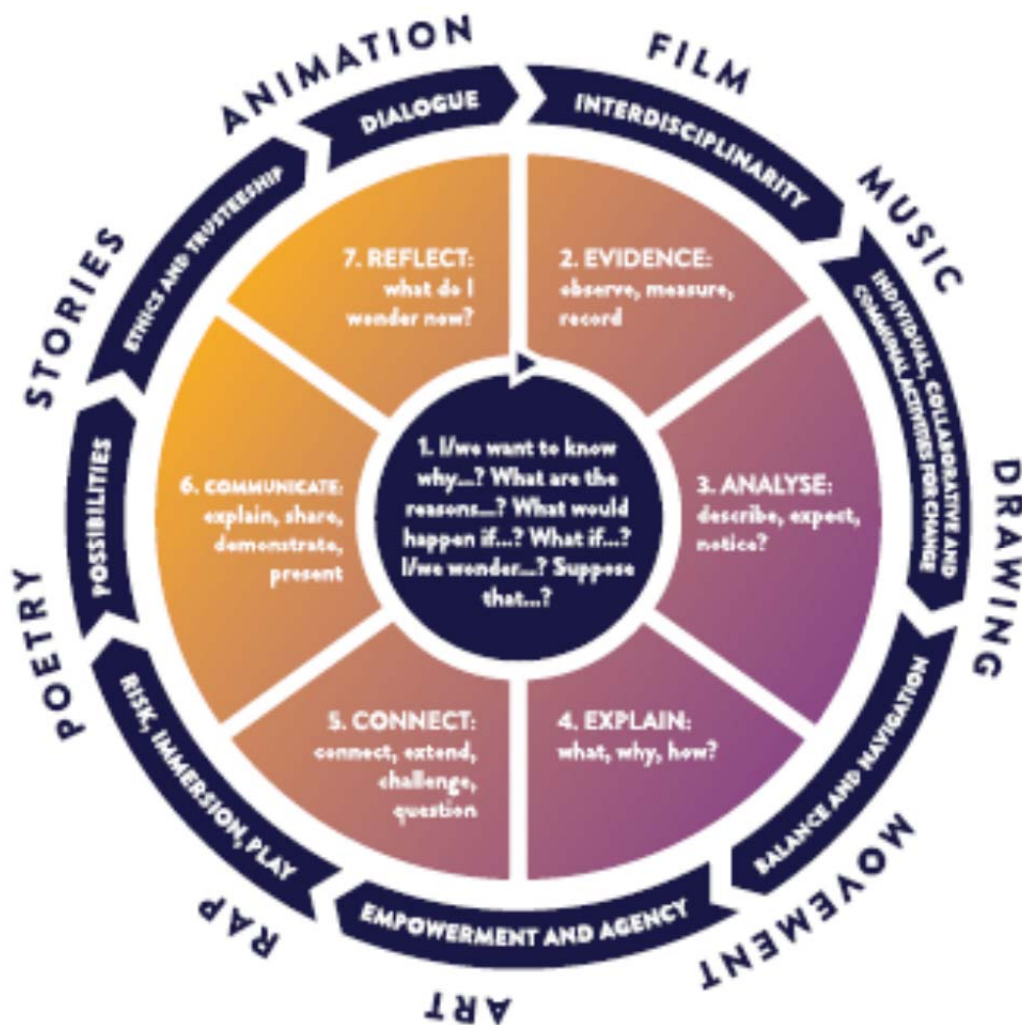


Figure 1: CREATIONS Wheel developed by the University of Exeter, available to download from the Resources page

The CREATIONS wheel is a physical tool to use with your students or young people. It is a way for them to generate questions about a theme or topic. Using the central wheel there are prompts for the students to begin their discussions. They then follow the second wheel, which is structured around the IBSE Cycle each stage of the cycle has further prompts to probe thinking. The gaps between the different segments allow for the third wheel to show through. It is envisaged that at each stage the person using the wheel has an opportunity to consider how they might integrate the arts at this stage.



Figure 2: Example conversation using a prototype of the CREATIONS wheel

Lesson idea / explanation using the IBSE cycle and CREATIONS wheel

Topic: forces, balance, gravity

Age range / Key stage: 14-18 / KS3 – KS4

Stimulus: The Human Table



Figure 3: Video example of the Human Table available from the Resources page

Question stage: Using the central wheel the young people begin to generate as many questions as they have about the topic and the video they have just watched, for example they might suggest:

- *We want to know why / how that worked, do you just have to be strong or is there something else going on here?*
- *I wonder if you can make the table using only one leg.*
- *What would happen if you made the table with 3 people instead of 4?*

After the young people have generated as many questions as they can about the topic, they then select one they wish to explore further.

As the young people move through each stage of the IBSE cycle around the wheel, they constantly consider how the Arts can be integrated or enhanced at each phase of the process (i.e. the gap in between the segments) where the young people can muse if they can integrate the arts at this point.

The CREATIONS Honeycombs



Figure 4: CREATIONS Honeycombs mapped together developed by University of Exeter, available as download from the Resources page

Using the honeycomb as a prompt to develop the questions raised, you might ask the young people during this process how can the Arts be employed, used, integrated, enhanced during this stage of the process?

Below are some suggestions about how this might look:

- The young people can explore further shapes through movement i.e. counterbalance and counter tensions - they can create a dance about forces and gravity.
- They can engage with film and media by making a video of themselves conducting their experiment.
- They can engage with music by applying different forces to a stringed instrument to compose a piece of music.
- They can engage with art and make a photo collage documenting their experiment

Please see the **CREATIONS Resources** page for downloads of the CREATIONS Wheel and Honeycombs