



Fantastic DNA in a Box

A Step-by-Step Guide

Summary of STEPS, **advised timing**, **indicative duration** (30'), & **support resources**.

Detailed information also in your email correspondences or on our website:

www.cellexplorers.com/2020fantasticdnainabox

STEP 1	Collect "Fantastic DNA in a box" – at least 1 week in advance Collect the box from your local team as arranged by email. Read the health and safety guidelines before collection. If you want to run the experiment with us through a Zoom meeting, book a time slot as indicated by your contact (by email or through the Eventbrite page).	30'
STEP 2	Check the box content - just after collection <ul style="list-style-type: none">• Use the checklist in the Teacher Manual (in box) & 'Video 1 – The Box Contents' (on our website).• Re-read the health and safety guidelines document outlining in detail the storage instructions of the kit, and specific precautions to take whilst running the experiment.	15'
STEP 3	Practice the experiment - as soon as possible after collection <u>It is essential</u> that you have experience running the experiment in advance of your class. It will provide you with the knowledge to run the session effectively and the experience to guide your class through the experiment. For this use ' Video 2 – the Fantastic DNA experiment '	30'
STEP 4	Plan the running of the experiment in your classroom - at least 4 days before Consider 1/ <u>the practical aspect</u> of organising the running of the experiment (How and when to set up, management, support – watch " Video 3 – the classroom set up "). 2/ <u>the pedagogical aspect</u> – See the ' Fantastic DNA in a box ' Lesson plan document for suggestion on this.	30'
STEP 5	Check in with Cell Explorers - at least 4 days before Once you have practiced the experiment yourself, before you run it with your class you may check in with us at Cell EXPLORERS to ask for clarifications and to run through your lesson plan with us.	15'
STEP 6	Introduce Fantastic DNA to your class- at least 3 days before Introduce Cell Explorers and the experiment to your class. You can follow all or part of our suggested ' Fantastic DNA in a box ' Lesson plan . Presentation videos are available on our website for this.	At least 15'
STEP 7 (Optional)	Test the live online connection with Cell Explorers - at least 3 days before If you want to establish an online connection with your class when doing the experiment, we will schedule a test Zoom meeting to ensure that the communication screen can be projected on the classroom board/whiteboard.	10'
STEP 8	Set up your classroom for the session - the day before Use the recommended classroom setup for the running of the session as in ' Video 3 – The Classroom Setup '. Refresh your memory about the experiment and how to run the activity. Consider training a <u>couple of colleagues at the experiment who could support you</u> in running the activity.	30'
STEP 9	Run the Fantastic DNA experiment with your class – On the day <i>Make sure pupils are prepared (see STEP 6)</i> <ul style="list-style-type: none">• Without us: Go through the experiment by Playing Video 2 one step at a time.• With us: Establish the zoom connection at the agreed time to run the experiment together.	45'
STEP 10	Reflect with the class on the activity – the day after <ul style="list-style-type: none">• Discuss the activity and what the class thought of it• Ask your class to complete the feedback questionnaire and post it to us• Consider booking an online text-based chat with "I am a Cell EXPLORERS Scientist"	30'