

inspiring SCIENCE

education

User's Guide for UK Teachers

This guide explains various aspects of the Inspiring Science Education (ISE) portal. Please use the menu below to find the information you are searching for.

[Why use ISE?](#)

[Registration Guide](#)

[Joining a Community](#)

[Using an ISE Demonstrator in your classroom](#)

[Communities and Networks](#)

[Building your own Demonstrator](#)

Why use ISE?

There are good reasons for using ISE UK demonstrators to deliver your lessons.

Ready-made but Flexible

A demonstrator is a ready-made, ready-to-deliver lesson plan which is still flexible enough for you to adjust and alter to the specific needs of each class.

Questions and Answers

You can set questions within the lesson plan and the student's answers are automatically collected together.

Continually Updating

The teacher view for each lesson is continually synchronising so you can always see how much progress individual students are making with exercises.

Embedded links

All lesson plans can have website links embedded in them making them more interactive.

Teacher view

As a teacher you can see how much time each student has spent on specific lessons or exercises which is great for homework exercises.

Collaboration

A final advantage to the ISE platform is that you can share lessons and alterations with other educators via the Communities.

Registration Guide

This section explains how to set up an online account with the “Inspiring Science Education” (ISE) portal through the ISE UK Community. It is specifically designed for teachers. Registration should take no more than 5 minutes.

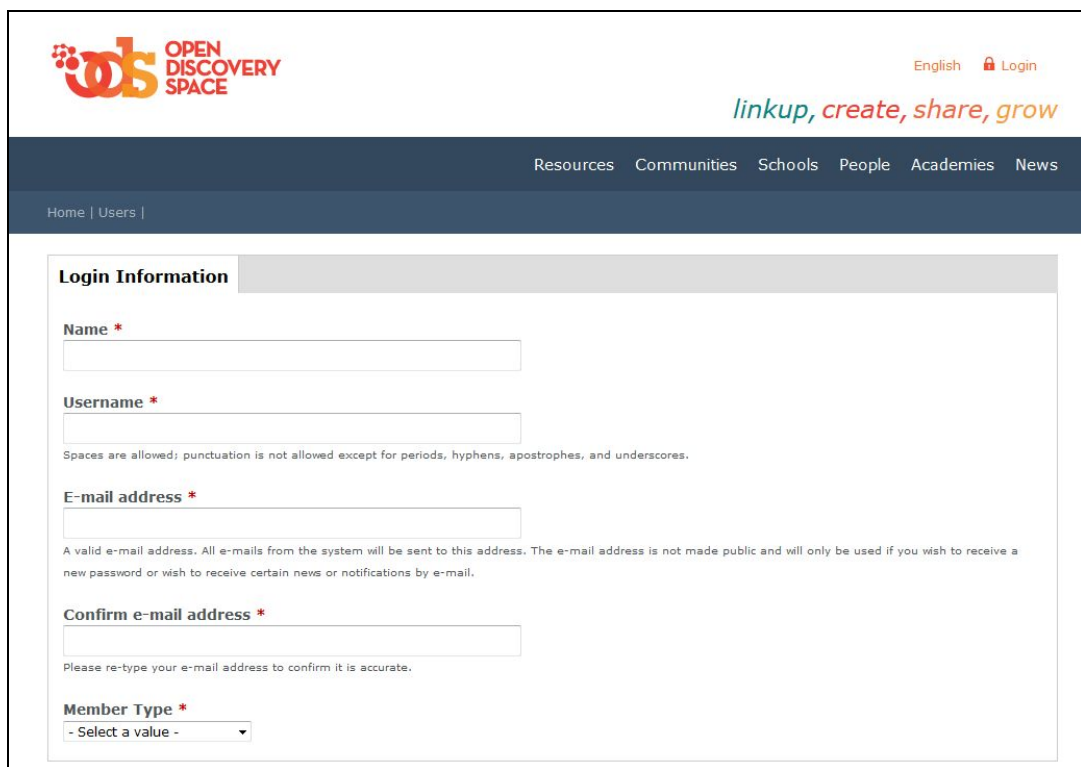
Go to the link or use the QR code below which will take you to the Open Discovery Space (ODS) Registration page.

The link: bit.do/ISE-Teacher



The QR Code:

Fill in your details, choosing a unique username and member type “Teacher”. You will not set a password until the next step.

A screenshot of the Open Discovery Space (ODS) registration page. The page has a dark blue header with the ODS logo on the left, which includes the letters 'ods' in a stylized font and the text 'OPEN DISCOVERY SPACE'. On the right side of the header, there are links for 'English' and 'Login', and a tagline 'linkup, create, share, grow'. Below the header is a navigation menu with links for 'Resources', 'Communities', 'Schools', 'People', 'Academies', and 'News'. The main content area is titled 'Login Information' and contains several input fields: 'Name *', 'Username *', 'E-mail address *', and 'Confirm e-mail address *'. There are also instructions for each field, such as 'Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and underscores.' for the username field. At the bottom of the form is a 'Member Type *' dropdown menu with the option '- Select a value -'.

After approval by an administrator, you will receive an email to set your password. Click on the link and follow the instructions. Your username or email address, together with your password, will allow you to login to ISE in future and save/edit lesson plans.

After successful registration you should find yourself at the front page of the [UK community](#) of the ISE (or else go directly to the page via this address: <http://portal.opendiscoveryspace.eu/community/ise-uk-community-568351>).

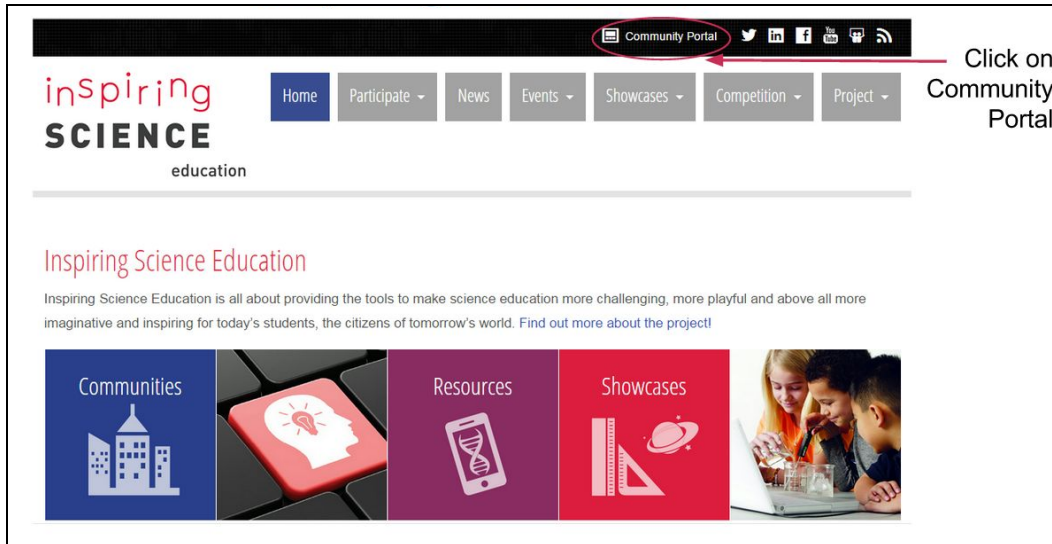
The screenshot shows the 'inspiring SCIENCE education' website. At the top right, a user profile for 'UK Teacher' is visible with a 'Logout' link. A navigation bar contains links for 'Resources', 'Digital Tools Repository', 'Communities', 'Schools', 'People', and 'Academies'. The main content area is titled 'ISE UK Community' and includes a description, a list of benefits for members, and statistics: 'Members: 13', 'Events: 5', 'Discussions: 2', and 'Resources: 44'. A 'Network of related communities' section is also present. Annotations include: 'This takes you to your personal area' pointing to the user profile; 'Click here to find other members' pointing to the 'Members: 13' link; and 'ISE-UK Resources (e.g. lesson-plans) can be found here' pointing to the 'Resources: 44' link.

There are various links on this page. If you click on your username towards the top right of the screen you will go to your [personal area](#). [Members](#) will take you to a list of other teachers and users of the ISE UK community. [Resources](#) contains a list of all ISE-UK resources, like lesson plans and web apps.

Congratulations on completing your registration with Inspiring Science Education.

Joining a Community

Start on the ISE homepage <http://inspiringscience.eu> (see above) and click the link to the [Community Portal](#) (top right of the screen). Sometimes this page can take a while to load.



Enter your login details (username or email and password). Skip this step if you are already logged in (in which case your username will appear at the top right). If you haven't registered yet, the previous section describes how to do this. The [Community Portal](#) page should look something like that shown below.

Your profile page is here

ISE tools can be found here

Help can be found here

Communities focus on different subjects, languages or specific scientific projects. We are ISE UK.

| COMMUNITIES | PEOPLE | RESOURCES | DEMONSTRATORS |
|-----------------------------------|-----------------------------------|--|--|
| Top Communities | Top Contributors | Featured Resources | Top Demonstrators |
| 148 TEACHER COMMUNITIES | 4717 CONNECTED TEACHERS | 193755 TOTAL RESOURCES AVAILABLE | 32 TOTAL DEMONSTRATORS AVAILABLE |

People contains other teachers

Resources contains all crowd-sourced Demonstrators, tools and other objects

If you are not already a member, it might be useful to join the ISE UK community where we have some very good resources and links to others.

From the Inspiring Science Education home page, click on Communities and search for the “ISE UK” community on the next page. Alternatively follow this link directly: <http://portal.opendiscoveryspace.eu/community/ise-uk-community-568351>

The screenshot shows the Inspiring Science Education website. The navigation menu includes: RESOURCES, DIGITAL TOOLS REPOSITORY, COMMUNITIES, SCHOOLS, PEOPLE, ACADEMIES. The main content area features a banner for the "SCIENCE ON STAGE FESTIVAL 2015" with the text "ILLUMINATING SCIENCE EDUCATION". Below the banner is a table with four columns: COMMUNITIES, PEOPLE, RESOURCES, and DEMONSTRATORS. The COMMUNITIES column shows 152 TEACHER COMMUNITIES. The PEOPLE column shows 4751 CONNECTED TEACHERS. The RESOURCES column shows 193755 TOTAL RESOURCES AVAILABLE. The DEMONSTRATORS column shows 32 TOTAL DEMONSTRATORS AVAILABLE. To the right of the table, there is a text box that says "Click on the Communities Button". Below the table is a search bar with the text "Search existing ISE Communities" and "Create new ISE Community". The search bar has a text input field labeled "Search Communities by: Title:" with a red oval around it and an arrow pointing to it from the text "To join the UK community of Inspiring Science Education, type 'ISE UK' into the search bar, then click 'search'". There are also dropdown menus for "School:", "Country:", and "Community Domain".

| COMMUNITIES | PEOPLE | RESOURCES | DEMONSTRATORS |
|----------------------------|----------------------------|-------------------------------------|-------------------------------------|
| Top Communities | Top Contributors | Featured Resources | Top Demonstrators |
| 152 TEACHER COMMUNITIES | 4751 CONNECTED TEACHERS | 193755 TOTAL RESOURCES AVAILABLE | 32 TOTAL DEMONSTRATORS AVAILABLE |

Search existing ISE Communities | Create new ISE Community

To join the UK community of Inspiring Science Education, type "ISE UK" into the search bar, then click "search"

Search Communities by: Title: School: Country: Community Domain

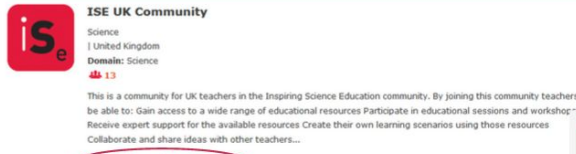
Search Clear

Visit the community page and click the “Join” button if you are not yet a member. An admin from the group will have to approve your request but this shouldn’t take too long.

There is a lot of information available from the ISE UK community page. You can view other members as well as find resources such as lesson plans, web apps, and other tools. For now, click on the “Resources” button.

Your search-results should look like this

Sort by: Most Popular
1 - 1 out of 1 for: "ISE UK"




ISE UK Community
Science
United Kingdom
Domain: Science
13

This is a community for UK teachers in the Inspiring Science Education community. By joining this community teachers will be able to: Gain access to a wide range of educational resources Participate in educational sessions and workshops... Receive expert support for the available resources Create their own learning scenarios using those resources Collaborate and share ideas with other teachers...

[Visit the community to see more](#)

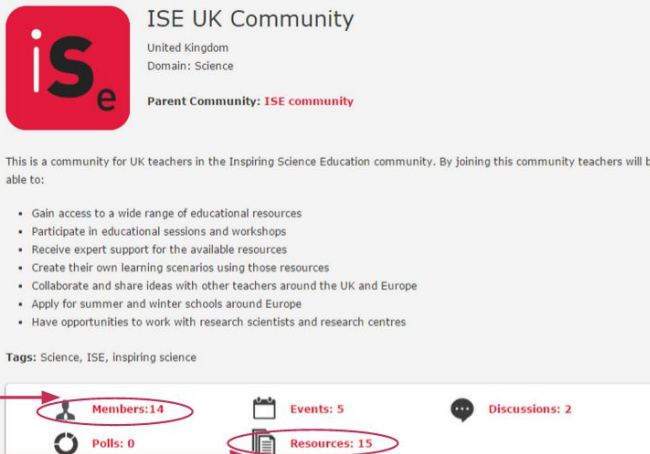
If this says "Join" instead of "Leave" then you are not yet a member and can click here to join



Click on "Visit the community" to enter the community homepage

ISE UK **members** can be found here

Resources contain lesson plans, apps and other tools. Click here.



ISE UK Community
United Kingdom
Domain: Science
Parent Community: ISE community

This is a community for UK teachers in the Inspiring Science Education community. By joining this community teachers will be able to:

- Gain access to a wide range of educational resources
- Participate in educational sessions and workshops
- Receive expert support for the available resources
- Create their own learning scenarios using those resources
- Collaborate and share ideas with other teachers around the UK and Europe
- Apply for summer and winter schools around Europe
- Have opportunities to work with research scientists and research centres

Tags: Science, ISE, Inspiring science

Members: 14 Events: 5 Discussions: 2
Polls: 0 Resources: 15

You have now navigated your way into a community and found a list of resources. The ISE portal has many Demonstrators which are a specific type of resource comprising pre-existing lesson plans. The next steps describe how you can easily implement these with your class.

Using an ISE Demonstrator in your classroom

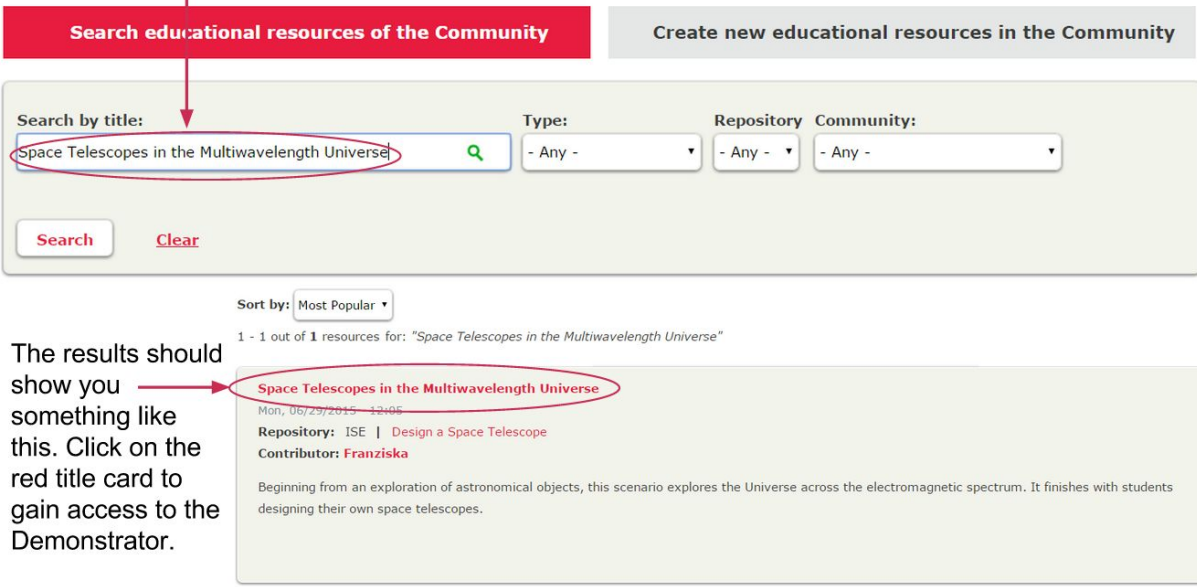
This section will walk you through the steps of preparing and delivering a Demonstrator (or lesson plan) for use in your classroom. We describe the pathway to one specific lesson but the steps can be easily adjusted for any other lessons offered by the ISE Portal.

When you completed the previous section, you should have been able to see a list of [ISE UK resources](#). They are available at this address:

<http://portal.opendiscoveryspace.eu/search-resources-in-community/568351>.

Most of these links go directly to the lesson plans. We are going to show you how to use the “[Space Telescopes in the Multiwavelength Universe](#)” demonstrator. Search for this title now; you can leave the other fields empty.

You can now see a list of ISE UK resources. We are going to demonstrate with the “Space Telescopes in the Multiwavelength Universe”, how you can get these plans available for your personal use. Search for the title of the Demonstrator and leave the other fields blank.



Search educational resources of the Community Create new educational resources in the Community

Search by title: Type: - Any - Repository: - Any - Community: - Any -

 [Clear](#)

Sort by: Most Popular

1 - 1 out of 1 resources for: "Space Telescopes in the Multiwavelength Universe"

The results should show you something like this. Click on the red title card to gain access to the Demonstrator.

Space Telescopes in the Multiwavelength Universe
Mon, 06/29/2015 - 12:05
Repository: ISE | Design a Space Telescope
Contributor: Franziska
Beginning from an exploration of astronomical objects, this scenario explores the Universe across the electromagnetic spectrum. It finishes with students designing their own space telescopes.

Click on the red title card to gain access to the Demonstrator, this should take you to the [homepage](#) for this Demonstrator.

On the next page is the homepage for this lesson plan (also referred to as a “Demonstrator”). You can check whether the lesson plan matches what you expect by clicking on [View Resource](#) which will give you a preview. If this is the lesson plan you want to use, click on the “Clone” button which copies the plan to your own personal area and makes it deliverable.

inspiring SCIENCE
education

Recommendations // About Us // English

Resources Digital Tools Repository Communities Schools People Academies

Home | Design a Space Telescope | Resources | Space Telescopes in the Multiwavelength Universe

Space Telescopes in the Multiwavelength Universe

Original hosted in "ISE", contributed by Franziska on 11/06/2015

Rating: -/5
Views: 18

Resource type: Lesson Plan
Languages: English
Target age group: 10-12, 12-14, 14-16, 16-18
Copyright: No
Cost: Use is free of charge

View Resource Clone Bookmark Pin Resource Rate this Add Tag

To preview the lesson plan go to **View Resource**

Clone copies the plan to your personal area and makes it deliverable. Try this now.

Your browser will have opened a new tab where you have to click the “Clone Lesson” button again.

Summary Page - Space Telescopes in the Multiwavelength Universe

General Info

Title: Space Telescopes in the Multiwavelength Universe

Date Created: 2015-06-10 19:38:27.0

Short Description: Beginning from an exploration of astronomical objects, this scenario explores the Universe across the electromagnetic spectrum. It finishes with students designing their own space telescopes.

Lesson Metadata

Edit Lesson Metadata - Step 1 of 6

1 General Info 2 Educational Context 3 Educational objective(s) 4 Subject Domain 5 Additional Information

General Info

Title * Space Telescopes in the Multiwavelength Universe

Provide Title

Short Description * Beginning from an exploration of astronomical objects, this scenario explores the Universe across the electromagnetic spectrum. It finishes with students designing their own space telescopes.

A new tab should have opened and look like this
You should click on “Clone Lesson” again

You are now invited to edit the lesson’s metadata. Rename the lesson to something relating to your school or your own name—students can read this.

For now scroll down and click **next→next→next→next→ save**

Pro-tip: Click on bubble 5, then scroll down and save.

The next page invites you to edit the lesson’s Metadata. We recommend renaming the lesson under the “General Info” to something relating to your school or your own name to make it easily identifiable. Be aware that students will be able to see this title when you deliver the lesson.

Check the information on each page, scroll down and press “next”. Do this for each of the 5 pages of metadata, then “Save” the lesson. You can achieve the same result by clicking on bubble 5 and pressing “Save” but this doesn’t allow you to check the information.

You are now ready to deliver the lesson to your students. You will be able to see a list of your personal lessons and scenarios if you have followed all the previous steps. Click on the red lesson title which will bring you into the interactive part of the lesson. Hovering your mouse pointer over icons will tell you what they do.

The screenshot shows the 'inSpiring SCIENCE education' interface. At the top, there's a navigation bar with 'My Lessons and Scenarios'. Below it, the page is titled 'Lessons and Educational Scenarios' with a search bar. A search result for 'Space Telescopes in the Multiwavelength Universe' is highlighted. The lesson details include: Date Created: 24/06/2015 - 16:36, Short description: Beginning from an exploration of astronomical objects, this scenario explores the Universe across the electromagnetic spectrum. It finishes with students designing their own space telescopes. Current status: Draft, Access rights: Public, Allowing adaptations, Age range(s): 10-12, 12-14, 14-16, 16-18, Original Author: Chris North. Below the details, there's a 'Summary Page - Space Telescopes in' section with a toolbar containing icons for settings, editing, delivery (group of 3 people), list, view, print, and delete. A red circle highlights the delivery icon, and a red arrow points to it from the text 'To deliver it, click on the group symbol (3 people)'. Another red arrow points to the lesson title 'Space Telescopes in the Multiwavelength Universe' from the text 'Now to deliver the lesson to your students. For this, click on the lesson title, written in red'. At the bottom, a table shows the title 'Space Telescopes in the Multiwavelength Universe'.

For now, let’s deliver the lesson by clicking on the “Deliver” symbol (group of three people).

You will be presented with two links which you can copy-paste or write down. You have both a teacher and a student link. Students use their link to enter the lesson and the teacher link gives you a view with more information. These links are specific to the delivery of that lesson and allow you to view all students progress.

It is recommended to create new links every time you deliver a lesson to a new group of students. This means you will view student feedback separately for each class. You do this by clicking on the “Deliver” button again (the group of 3 people). This keeps student progress feedback separate for you, the teacher.

Communities and Networks

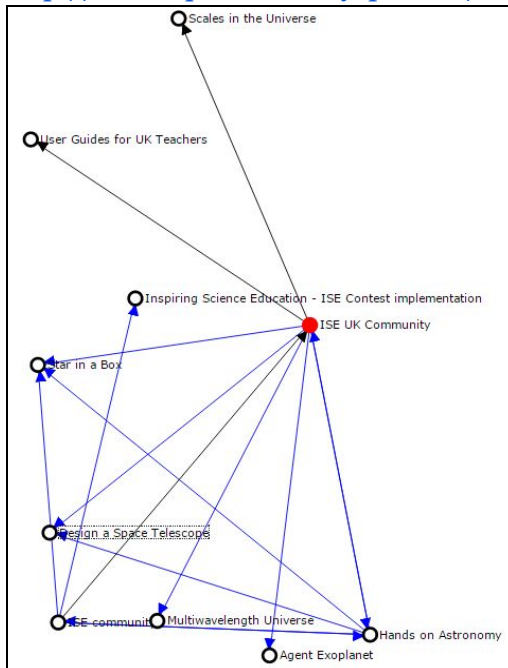
Communities are built around resources or common interests. Joining different communities enables you to find resources around certain topics or lesson plans.

We are the community of [ISE users in the UK](#) and have our own selection of resources.

ISE UK Community Home page can be found here:

[ISE UK Community Homepage](#)
Try checking out the “Network of related communities”

<http://www.opendiscoveryspace.eu/community/ise-uk-community-568351>.



If you go to the Network of Related Communities it will take you to a page that looks similar to the image on the left. This shows you the network of related communities from the Community you were on. Clicking on the name of a community will take you to that community’s home page. Using the community network allows you to find lesson plans related to those you have already used. Networks link communities together and visually connect related or similar Communities.

Try joining the Communities of a few of our ISE UK Resources such as [Agent Exoplanet](#) and [Star in a Box](#) as well as the [ISE Demonstrator](#) community. Within these Communities you can see a whole range of apps and resources connected to the lesson plans and Scenarios.

Building your own Demonstrator

If you are considering writing your own Demonstrator (ie. lesson plan), we assume that you already know how to clone and deliver pre-made demonstrators. If not check out the earlier section explaining this before proceeding to you make your own.

When you create your own Demonstrators you can share them with other educators and see any Demonstrators other educators choose to make public.

Authoring your own Demonstrators gives you full control over what content your students will encounter. This allows you to tailor your lesson plan closely to the material you want to cover.

To make your own Demonstrator, you first need to log-in to the ISE platform (unless you are already logged in) and go to the [resources page](#) of the [ISE UK Community](#) page.

Choose the community your resource will be embedded in. If it is a new topic, consider creating a new sub-community. If it is related to an existing lesson, consider creating it within the appropriate community for that resource.

Go to the resources page of your chosen community and click on the “Create new educational resources in the Community” tab. Select “Lesson Plan” or “Scenario” along with the “ISE Authoring Tool” before going to “Create New”.

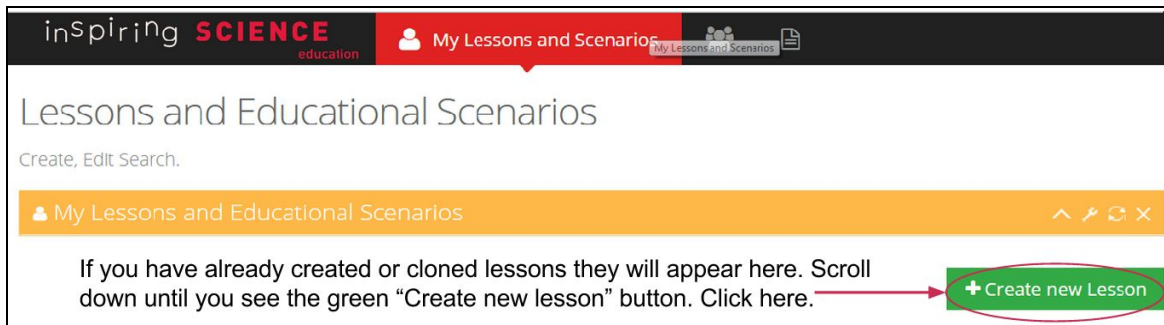
Go to the resources page of your chosen community and click on “Create new educational resources”

The screenshot shows the ISE platform interface. At the top, there is a search bar labeled "Search educational resources of the Community" and a red button labeled "Create new educational resources in the Community". Below this is a form with three steps:

- Step 1: Select Type of Resource**
 - Educational Object
 - Lesson Plan
 - Educational Scenario
- Step 2: Select Tool**
 - ISE Authoring Tool
 - UDLnet Inventory
- Step 3: Create New**

Red circles and arrows highlight the "Lesson Plan" and "ISE Authoring Tool" options, and the "Create New" button. Below the form, the text reads: "Select 'Lesson Plan' or 'Scenario' using the 'ISE Authoring Tool' before clicking 'Create New'".

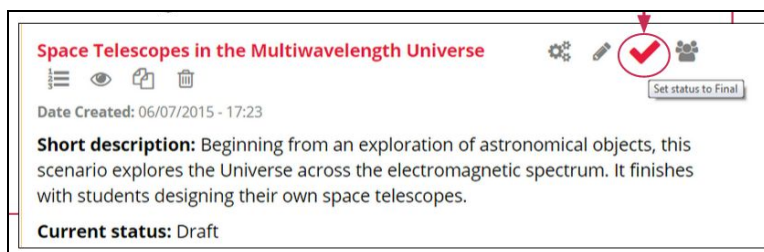
The following page will show you a list of all lessons you have created or cloned. Scroll down or shrink this list to see the “Create new lesson” button. This will take you to the Demonstrator construction pages.



Now you have to create the Metadata for this demonstrator. This includes the title of the lesson, a brief description, the recommended age range as well as other relevant details. You can go back and edit Metadata again later.

Once the Metadata is complete you create the lesson itself, allowing you to add pictures, links and questions as you go.

When your lesson is complete it will be saved to your list as a “Draft”. If you want to make this lesson publicly viewable you need to click the check-mark that appears when you hover the mouse over the pink lesson title.



There are several ways to make sure that your Demonstrators are most useful for you, your class and other educators:-

Put them in the right place

Make sure that Demonstrators are in the right Community, this makes them easier for others to find and helps you keep track of similar or related resources.

Embed links

Including links (to web apps or pages) within the lesson, makes it more interactive for students and gives you more control. Students can go directly to the relevant information.

Set questions

Aim to set questions at each stage of the lesson. These questions can be specific to learning outcomes for your students making it easier for you to monitor their progress and understanding.

Follow the 5-steps format

We recommend that you build your lesson plan around the 5 steps of the Inspiring Science Education format. This is based on current pedagogical research. These 5 steps are Orienting & Asking Questions; Hypothesis Generation & Design; Planning & Investigation; Analysis & Interpretation and Conclusion & Evaluation. These 5 steps mimic the scientific method.