

## Roles

Roles is a new feature available from [Tiki 21](#) that makes [Groups Management](#) and [Permissions](#) setting easier. Think of Roles as a permissions template which you can apply to [Categories](#). It can be used on its own or in conjunction with the older [Workspace UI](#) (which needs to be upgraded to make use of Roles without requiring manual adjustments), or in conjunction with the newer [Templated Groups](#) which is also introduced in Tiki 21.

For example, if you have 4 groups:

- Science Class Teachers
- Science Class Students
- Math Class Teachers
- Math Class Students

and 2 categories:

- Science Class Handouts
- Math Class Handouts

and you want to make it such that all Teachers can edit handouts but Students can only read the handouts. Without Roles, you would need to set permissions on each of the categories and imagine if you have many other classes such as Geography or History etc... it can be a lot of work. Also, what if you wanted to change the permissions?

With Roles, you can create a "Teacher" Role group and a "Student" Role group which acts as the permissions template for all Teachers and Students regardless of what subject it is for. Instead of setting category permissions for each of the groups, you simply set which group has the role of Teachers and of Students in that group and permissions will be auto-magically mapped.

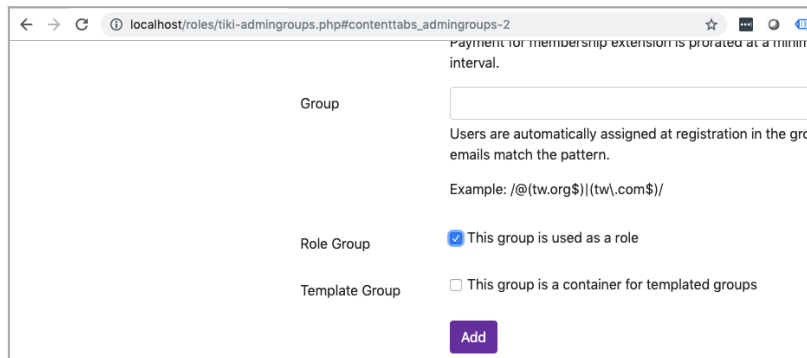
- Science Class Handouts
  - Teacher Role: Science Class Teachers
  - Student Role: Science Class Students
- Math Class Handouts
  - Teacher Role: Math Class Teachers
  - Student Role: Math Class Students

## Example

Now, let us walk through how the above example is configured:  
(editor's note: this example is used as part of the [Templated Groups](#) as well so take note when editing it).

## 1. Create Role Groups

Create two groups, one "Teachers" and one "Students". Make sure that "Role Group" checkbox is selected for both.

A screenshot of a web browser showing the 'Create group' form in Tiki. The form has a left sidebar with 'Wiki', 'File Galleries', and 'Settings' links. The main content area has a 'Group' field, a 'Description' field, and two checkboxes: 'Role Group' (checked) and 'Template Group' (unchecked). An 'Add' button is at the bottom right. A message at the top says 'Payment for membership extension is prorated at a minimum interval.' and another says 'Users are automatically assigned at registration in the group if their email address matches the pattern. Example: /@(tw.org\$)|(tw\.com\$)/'.

Click to expand

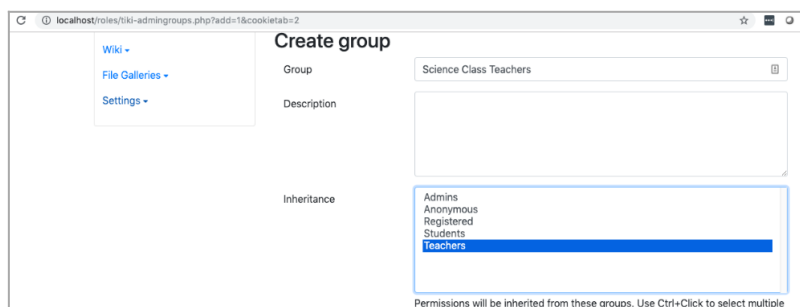
You will note that if you try and put any users into Role Groups, you will be told that Role Groups can't have members. This is by design.

Note: if you apply any Global Permissions to a Role Group, they will work for included groups such as those below the same as non-Role groups. These are Global Permissions though, not Role Permissions which are set at the Category Parent level (see below)

## 2. Create Groups that Include the Role

Create the following 4 groups and include the Teacher or Student Role Group as the case may be:

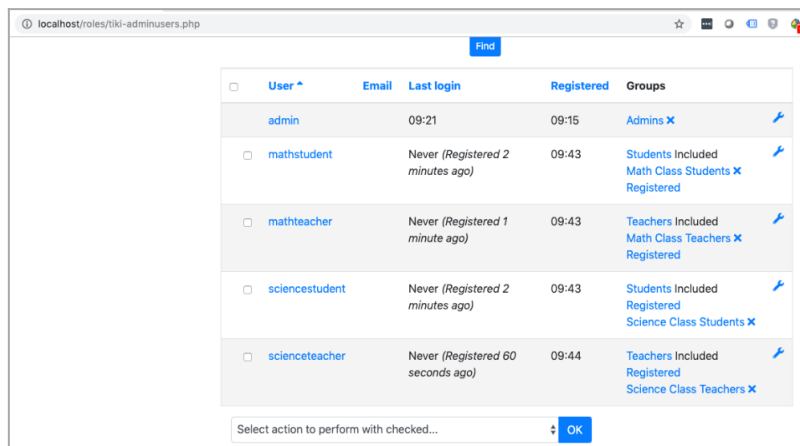
- Science Class Teachers
- Science Class Students
- Math Class Teachers
- Math Class Students

A screenshot of the 'Create group' form in Tiki, showing the 'Inheritance' section. The 'Group' field is 'Science Class Teachers'. The 'Description' field is empty. The 'Inheritance' section shows a list of groups: 'Admins', 'Anonymous', 'Registered', 'Students', and 'Teachers'. The 'Teachers' group is selected. A message at the bottom says 'Permissions will be inherited from these groups. Use Ctrl+Click to select multiple'.

Click to expand

### 3. Create some test users

Create some test users and put them in these groups for testing/demo purposes.



The screenshot shows a web browser window at localhost/roles/tiki-adminusers.php. It displays a table of users with columns for checkboxes, User, Email, Last login, Registered, and Groups. There are five users listed: admin, mathstudent, mathteacher, sciencestudent, and scienceteacher. Each user has a 'Groups' column with links to expand the list of groups they belong to. At the bottom, there is a 'Select action to perform with checked...' dropdown and an 'OK' button.

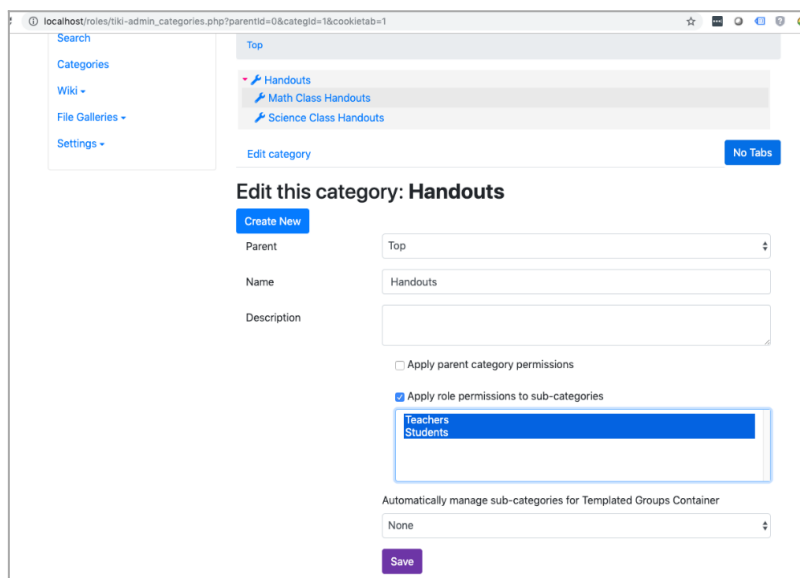
<input type="checkbox"/>	User	Email	Last login	Registered	Groups
<input type="checkbox"/>	admin		09:21	09:15	Admins
<input type="checkbox"/>	mathstudent		Never (Registered 2 minutes ago)	09:43	Students Included Math Class Students
<input type="checkbox"/>	mathteacher		Never (Registered 1 minute ago)	09:43	Teachers Included Math Class Teachers
<input type="checkbox"/>	sciencestudent		Never (Registered 2 minutes ago)	09:43	Students Included Registered Science Class Students
<input type="checkbox"/>	scienceteacher		Never (Registered 60 seconds ago)	09:44	Teachers Included Registered Science Class Teachers

Click to expand

### 4. Create categories

Create a Handouts category with the sub-categories "Science Class Handouts" and "Math Class Handouts".

For the Handouts category, make sure you select the "Apply role permissions to sub-categories" and select both "Students" and "Teachers". By doing this, any permissions that you set on the Handouts category for "Students" and "Teachers" will apply equally to the respective Students and Teachers in each of the sub-categories.



The screenshot shows a web browser window at localhost/roles/tiki-admin\_categories.php?parentid=0&catid=1&cookietab=1. It displays the 'Edit this category: Handouts' form. The form includes fields for Parent (Top), Name (Handouts), and Description. There are checkboxes for 'Apply parent category permissions' (unchecked) and 'Apply role permissions to sub-categories' (checked). Below the checked checkbox, a list of roles is shown, with 'Teachers' and 'Students' selected. At the bottom, there is a dropdown for 'Automatically manage sub-categories for Templated Groups Container' set to 'None' and a 'Save' button.

Search  
Categories  
Wiki  
File Galleries  
Settings

Top  
Handouts  
Math Class Handouts  
Science Class Handouts

Edit category No Tabs

Create New

Parent: Top

Name: Handouts

Description:

☐ Apply parent category permissions

☒ Apply role permissions to sub-categories

Teachers  
Students

Automatically manage sub-categories for Templated Groups Container: None

Save

Click to expand

For each of the sub-categories, specify the exact group that will take on the Group Roles for Student and Teacher as illustrated here:

localhost/roles/tiki-admin\_categories.php?parentid=1&catid=3&cookietab=1

Settings - Edit category Objects in category Moving objects between categories No Tabs

Add objects to category

### Edit this category: Math Class Handouts

Create New

Parent: Handouts

Name: Math Class Handouts

Description:

Group Roles:

Teachers: Math Class Teachers

Students: Math Class Students

☐ Apply parent category permissions

☒ Apply role permissions to sub-categories

Save

Click to expand

## 5. Configure Role Permissions

Setup some role permissions for Handouts by editing the Permissions for the Handouts category. setting screen. For our example we will give tiki\_p\_edit for Teachers; and tiki\_p\_view for both Teachers and Students.

localhost/roles/tiki-objectpermissions.php?objectType=category&objectId=1&permType=category&objectName=Handouts

### Assign permissions to this category

Assign Delete category permissions Copy

☐ Assign or remove permissions on all child categories

#### Permissions

Filter:

Toggle sections ☐ Show only selected

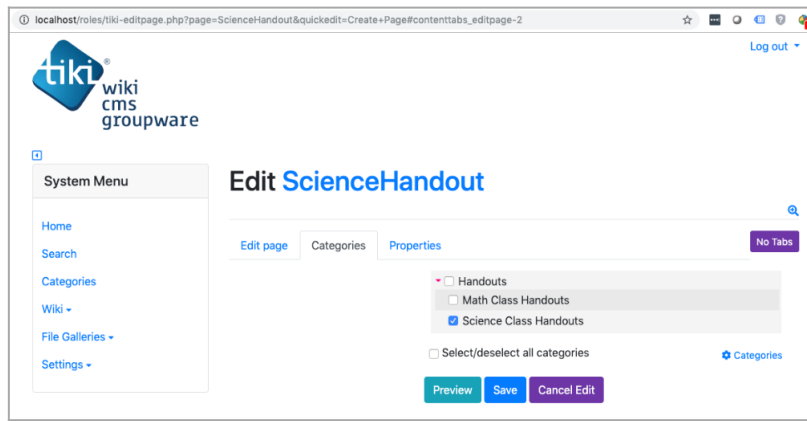
wiki

Role	Permission
Anonymous	Can admin the wiki (tiki_p_admin_wiki)
Registered	Can admin the wiki (tiki_p_admin_wiki)
Teachers	Can view page/pages (tiki_p_view)
Students	Can view page/pages (tiki_p_view)
Science Class T...	Can edit pages (tiki_p_edit)
Math Class T...	Can edit pages (tiki_p_edit)
Math Class Stud...	Can edit pages (tiki_p_edit)
Science Class R...	Can upload pictures to wiki pages (tiki_p_upload_picture)

Click to expand

## 6. Create test wiki pages

Create a Science Class Handout and a Math Class Handout wiki pages and categorize them accordingly. Test with the demo users to ensure that everything is working as intended.



Click to expand

## Page Aliases

[Role Groups](#)