

# Articulate Training

## Case Based Learning Resources

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# Creating a “Case Based Learning” resource

## This guide will:

- Introduce you to creating interactive “case based learning” resources using Articulate Quizmaker
- Show you the core structure that most cases will follow
- Different ways of engaging the student in decision making within the resource
- Show you how to publish your resource so that it is available to your students

## What you’ll need:

- *Articulate Quizmaker* software
- A storyboard that resembles a realistic case
- Some alternative options for the case

## Use this tool:

- If you would like to create a realistic teaching tool to expose students to decision making that is required in a clinical scenario
- To further enforce teaching that has taken place in a classroom, or hospital environment
- Create a very rich learning environment to engage students with the topic in an interactive manner.

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## Step 1: Create a new quiz

Open *Articulate Quizmaker '09* software and select ‘Create a new quiz’.



## Step 2: Create a new graded quiz

From the list of options provided select the 'Graded Quiz' option on the left and then select 'ok'. A graded quiz means that the student will be given a mark for the quiz, resulting in a pass or fail.



## Step 3: Check your settings

Before we get started we need to check the basic settings of the case. This will make it easier when we come to the end of creating this resource.

To access the settings you can click on the button that is titled "Quiz Properties" in the menu bar.



This will open up a menu of options. This is easy to navigate by clicking on the tabs on the left. Below is a list of recommended settings:

### Quiz Info

- Title – give your case a meaningful name (but don't give away the answer of the case)

- Pass Score – If a passing score is not important for the case you can set this score to 0%
- Time Limit – If you like you can add pressure by adding a time limit to this case

#### Question Defaults

- Points – How many points are awarded for a correct answer, set here to apply to all questions
- Attempts – How many attempts? 1 is the normal, I wouldn't recommend more than 2 attempts
- Default Feedback – customise your standard feedback

**Quiz Properties**  
Set properties for this quiz.

**Quiz Info**

**Title**  
Quiz title:  
12yo Boy with haematuria

**Passing Score**  
Passing score: 0 %

**Time Limit**  
☐ End quiz after 60 minutes 0 seconds

Learn more about quiz properties Quiz Type: Graded Quiz **OK** Cancel

Click OK to confirm your settings.

Now would be a good time to save your resource...

### Step 4: Create your Scenario Slide

The first page that the student sees in the scenario is needed to “set the scene”. This is used to present the case and provide a summary of the information that you would be presented as the “decision maker” in this scenario.

#### Things to think about:

- Who are you, where are you working?
- Who is the patient? What is their background?
- How does the patient present? What additional information are you presented with?
- Do you have an image to add context to this case?



## Blank Slide

First you have to create a blank slide in your quiz. Blank slides are the same as a slide in PowerPoint. They deliver content to the audience, but they do not ask the student to make any decisions at this stage.

Click on the “Blank Slide” button in the Quizmaker Menu Bar.

This will open up your blank slide editor.

The screenshot shows the 'Blank Slide - Articulate Quizmaker '09' window. The interface includes a menu bar with 'Home' and 'Help'. Below the menu bar is a toolbar with icons for 'Save & Close', 'Form View', 'Slide View', 'Clipboard', 'Text', 'Media', 'Sound', and 'Preview'. The main editing area is divided into three sections: 'ENTER THE TITLE:', 'ENTER THE TEXT:', and 'SET FEEDBACK AND BRANCHING:'. The 'ENTER THE TEXT:' section is highlighted with a red border and contains a sample medical case scenario. The 'SET FEEDBACK AND BRANCHING:' section includes a 'FEEDBACK' table and a 'More...' button.

**ENTER THE TITLE:**

Scenario

**ENTER THE TEXT:**

A woman from a fishing village near Mangochi brings to your medical outpatient clinic her 12-year-old son. She tells you that he finds it painful to pass urine, and that the urine often contains bright blood. After taking a detailed history you find:

The boy is otherwise an active, bright and healthy child, with no previous serious illness. He has had this problem for 3 years, and it is getting steadily worse. He spends much of his spare time playing in the lake, and he helps his father unload his fishing catch.

**SET FEEDBACK AND BRANCHING:**

	Feedback
FEEDBACK	

More...

Now would be a good time to save your resource...

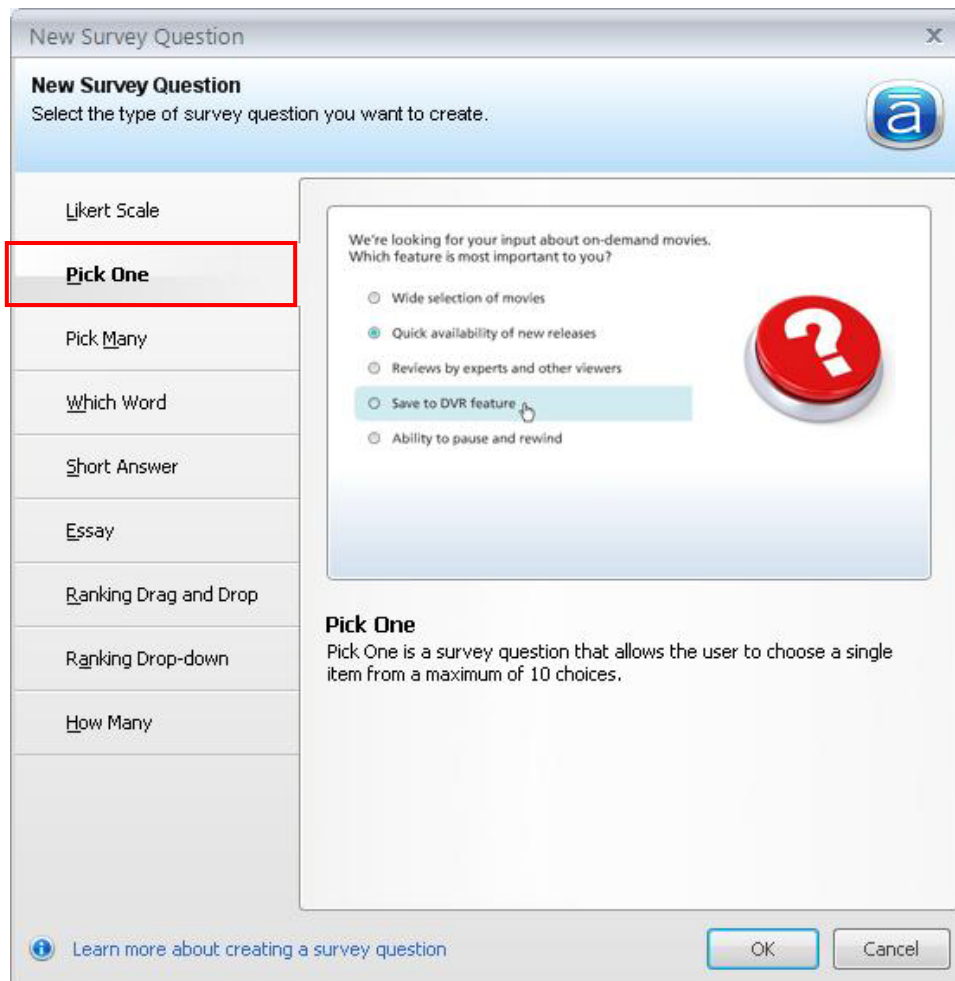
## Step 5: The initial feeling about the case

The next slide that the student sees could get them to take their first decision about the case. This is an instinctive choice that would then lead the student down the path of investigation and treatment.

Is there a correct response?

The first question may not necessarily have a correct choice, as it is the initial feeling towards the case. For this reason it may be best to use a survey question that is then followed up with some feedback.

Select “Survey Question” from the menu, then select “Pick One” from the choice of survey questions



### Write the Question

In the form for this question you will need to write the question in the text box given.

### Write the Answers

In the answers field it should offer a list of possible outcomes that it is plausible that a student may associate with the case. It does not mean that the final outcome has to be listed in this box as it could be delivered over time.

The student will only select one response from this list.



**Pick One Question - Articulate Quizmaker '09**

Home Help

Save & Close Close Form View Slide View Show Clipboard Text Feedback: By Answer Shuffle: Answers Require: User must answer Display Media Sound Preview

**ENTER THE QUESTION:**

What is your initial feeling about this patient?

**ENTER THE CHOICES:**

Choice	Feedback
A Patient could be suffering from <u>Schistosomiasis</u>	The fact that the boy lives near to the lake would be a strong link to <u>Schistosomiasis</u> in relation to finding <a href="#">More...</a>
B Patient could have a stomach ulcer	What could have caused this ulcer, and how would you test for it? <a href="#">More...</a>
C Patient could have suffered a trauma to the bladder	There didn't seem to be any signs of trauma after closer investigation. <a href="#">More...</a>
D Patient is normal	Be sure you are confident before discharging this patient as the symptoms are so severe <a href="#">More...</a>
E Click to enter a choice	
F	
G	
H	
I	
J	

## Feedback

One of the advantages of this type of question is the ability to provide feedback based directly on the student's response.

To activate this setting you should click "By Answer" in the feedback drop-down box in the question menu. Write some supportive feedback for each answer. If the student is completely wrong it could be a good time to highlight their mistake.

**Now would be a good time to save your resource...**

## Step 6: Next Step, decision making

Now the direction that the case will go will depend very much on the storyboard that you have created and your specialty. As these cases are written in the context of a real life scenario it should be easy for you to think of the decisions that would be taken next.

In this example, we ask the student what tests and examinations that would like to carry out.

This is using another survey question as there may not be a wrong answer, but it is important to highlight if the student is beginning to make big mistakes, or being overly cautious in their approach.

Alternatively there may only be one correct decision at this stage, so the decision could be posed as a graded question with feedback given if the student answers correctly or not.

## Select your question type

Add a new question, either graded or survey.

In this case we will be using a "Pick Many" survey question to mimic the decision that a doctor would have to take in ordering tests, and additional examinations.

**New Survey Question**  
Select the type of survey question you want to create.

**Pick Many**

In your recent call with the Comstar CSR, which positive attributes would you say the CSR exhibited?

- ☒ Patient and willing to do what it takes
- ☐ Knowledgeable in Comstar's product offerings
- ☒ Able to quickly identify my problem
- ☒ Genuinely interested in providing a solution

**Pick Many**  
Pick Many is a survey question that allows the user to choose many items from a maximum of 10 choices.

[Learn more about creating a survey question](#) OK Cancel

### Write Your Question

In the form for this question please write your question. Make sure that it is clear what decisions are expected from the student.

### Write the Answers

In this example there are list of possible tests and examinations that could be carried out. Some are more appropriate than others.

Pick your answers with a mixture of realistic options, "ideal scenario" options, and some wrong answers.



Pick Many Question - Articulate Quizmaker '09

Home Help

Save & Close Close Form View Slide View Show Clipboard Text Feedback: By Question Shuffle: Answers Require: User must answer Display Insert Preview

ENTER THE QUESTION:  
What are your next steps?

ENTER THE CHOICES:

Choice
A Treat with broad spectrum antibiotics
B Ask for laboratory examination of the urine
C Ask for ultrasound of the bladder
D Send for a Chest X-Ray
E Discharge Patient
F Click to enter a choice
G
H

SET FEEDBACK AND BRANCHING:

Feedback
FEEDBACK The best course of action is to examine the urine. More...

## Feedback

In this example we have chosen feedback to be shown when the student submits their response. Alternative approaches to feedback could involve using a "blank slide" to display a large amount of information to progress this case.

As we have written a large amount of text in this example, we have clicked on the "more..." option so it is easier to edit large amounts of text.

Pick Many Question - Articulate Quizmaker '09

Home Help

Save & Close Close Form View Slide View Show Clipboard Text Feedback: By Question Shuffle: Answers Require: User must answer Display Insert Preview

ENTER THE QUESTION:  
What are your next steps?

ENTER THE CHOICES:

Choice
A Treat with broad
B Ask for laborator
C Ask for ultrasoun
D Send for a Chest
E Discharge Patient
F Click to enter a c
G
H

SET FEEDBACK AND BRANCHING:

Feedback
FEEDBACK The best course of action is to examine the urine. More...

**Question Feedback**  
Enter the feedback for this question.

Enter text for the feedback prompt. (Leave blank for no prompt)

The best course of action is to examine the urine.  
An ultrasound or X-Ray would be very costly, and not essential in this case.  
Do not discharge the patient!

**Audio**  
Play the following audio:  
No audio 0.00s

**Branching**  
Branch to the following slide:  
(default)

Learn more... OK Cancel

Now would be a good time to save your resource...

## Step 7: More Decisions, Questions, and Feedback

Now you are comfortable with how to add questions, answers and feedback to your case you can start to build the case further to match your storyboard.

Here is a list of other questions that could be used to build up your cases.

### Graded Questions

These questions are ideal for steps in a scenario where there is a clear correct answer. These questions can be used to collect a score to help a student to evaluate their performance in the case.

- Multiple Choice
  - Excellent for selecting one course of action. It is also possible to give feedback based on each answer
- Multiple Response
  - Useful for scenarios that require a number of elements to be considered in a decision
- Sequence Questions
  - Useful for questions where decisions may happen in a particular order
- Numeric
  - Ideal for any decisions that require a calculation. i.e. prescribing, vital signs, etc
- Hotspot
  - Suitable for decisions that may be based on an image.
  - Possible situations could include X-rays, looking at lab results, visual examinations

### Survey Questions

These questions are to be used for stages in the case where there may not yet be any correct responses. The answers submitted for these questions will not be reflected in the students final score.

- Pick One
  - Excellent for selecting one course of action. It is also possible to give feedback based on each answer
- Pick Many
  - Useful for scenarios that require a number of elements to be considered in a decision
- Short Answer & Essay
  - Suitable for use to get the student to write down their decision without any prompts to remind them on screen.
  - This should be used alongside a blank side to show the “golden response” for the answer
- Ranking
  - Useful for questions where decisions may happen in a particular order, or have a varying level of importance
- How Many
  - The same as a numeric graded question, a numerical response is required.

**Now would be a good time to save your resource...**

## Step 8: Case Summary

Once you reach the end of your case-based learning resource it is very important that you summarise the teaching that you would expect the student to have understood during the scenario.

A Case Summary will often include:

- A summary of the “ideal” path taken in the scenario
- A summary of teaching points
- Key things to look for in future cases, and real life experiences
- Additional information to support the case

- Documents
- Websites
- Other cases

### Create a Blank Slide

A summary slide is just like you scenario slide created earlier using a “Blank Slide”. Click on the “Blank Slide” button in the Quizmaker Menu Bar.

This will open up your blank slide editor.

Write your summary information in the main text window.

If you need to add an image, or link to more resources you will find “hyperlink” tools and the “Media” tools in the menu of the summary slide.

Blank Slide - Articulate Quizmaker '09

Home Help

Save & Close Form View Slide View Cut Copy Paste Text Display Media Sound Preview

ENTER THE TITLE:

Summary

ENTER THE TEXT:

- Children near the lake have a high prevalence of Schistosomiasis
- It is important to examine the urine for signs of eggs
- Praziquantel currently is the best way of fighting the parasite
- After a single dose it is unlikely that the patient will need a follow-up

The risks of Schistosomiasis in areas surrounding the lake is of high concern.

Please read the following documents for approaches in battling the parasite in the local community.

Link to Document Here

Other useful links:

Links to Websites

Links to useful publications

SET FEEDBACK AND BRANCHING:

	Feedback
FEEDBACK	

More...

Now would be a good time to save your resource...

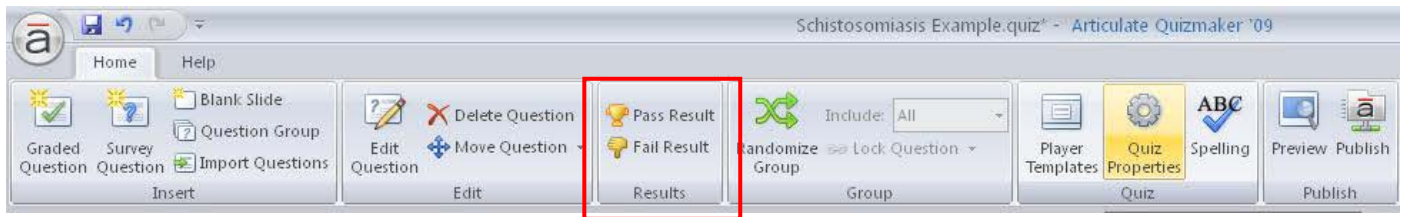
### Step 9: Pass/Fail Slide

Thats it. You have written your Scenario, questions, feedback, and summary slides. All that stands in your way of taking a look at the finished article is a few more settings.

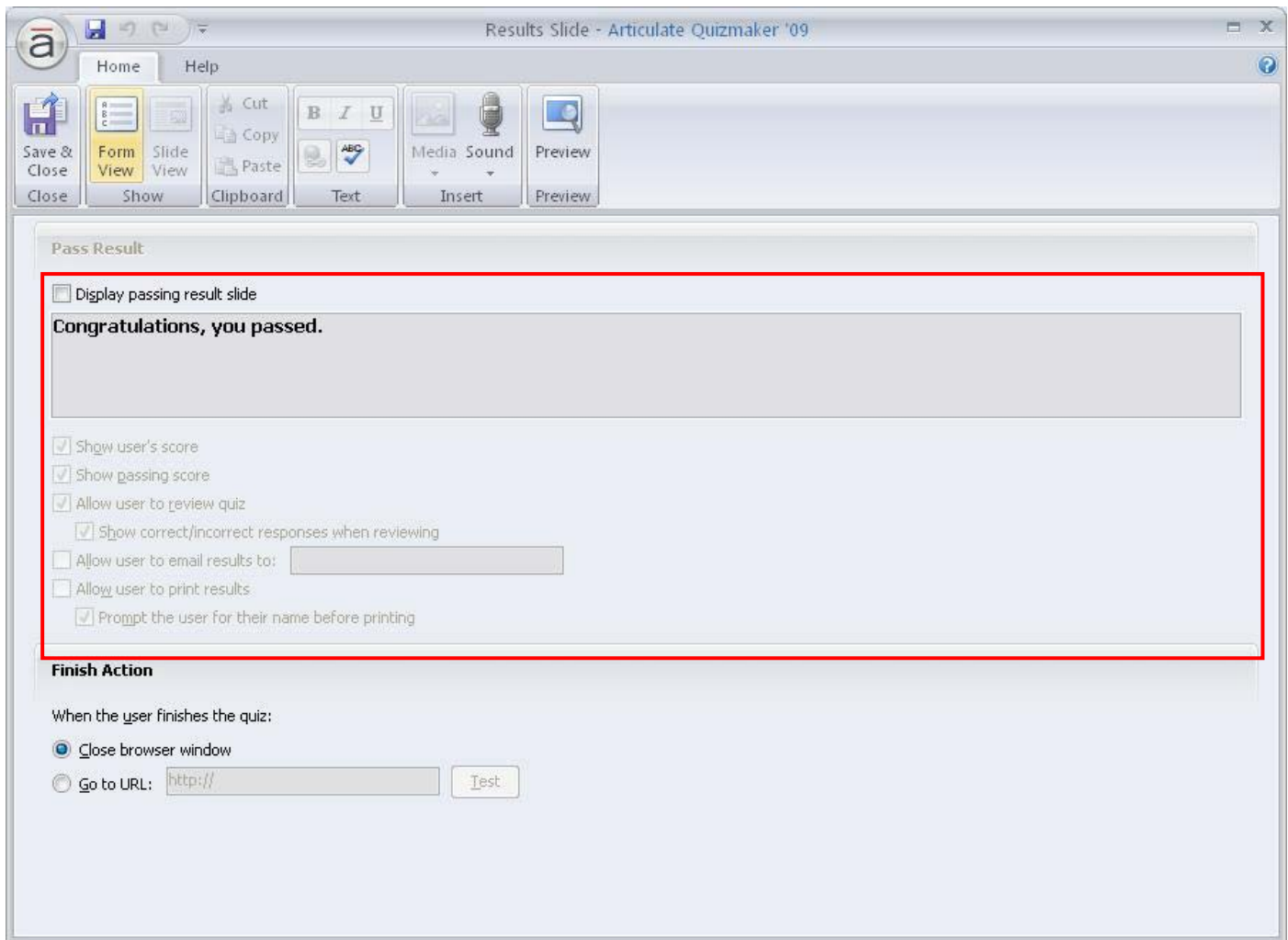
#### Pass / Fail Slide

By default there will be a pass/fail slide at the end of your quiz. This will show the student's score and whether or not they met the pass mark.

If this is a feature that you would like to customise you can click on the “Pass Result”, and “Fail Result” options in the menu to show a number of different bits of information to the student.



If you do not want a Pass or Fail slide to appear you should *uncheck* the box in each of the “Pass Result” and “Fail Result” windows



## Step 10: Preview

Before you publish your resource it is a good idea to preview your case. There are a few things that you should be looking out for:

- Does your scenario paint an accurate picture?
- Do all of the questions make sense?
- Do all of the questions have appropriate feedback to support the question?
- Do any steps need images?
- Have you written your summary page?

To preview your quiz all you have to do is click on the Preview button in the menu bar.



**12yo Boy with haematuria**

Question ▾

**Scenario**

A woman from a fishing village near Mangochi brings to your medical outpatient clinic her 12-year-old son.

She tells you that he finds it painful to pass urine, and that the urine often contains bright blood.

After taking a detailed history you find:

The boy is otherwise an active, bright and healthy child, with no previous serious illness.

He has had this problem for 3 years, and it is getting steadily worse.

He spends much of his spare time playing in the lake, and he helps his father unload his fishing catch.

Score so far: 0 points out of 0

**NEXT ►**

Once you have previewed your quiz, and you have made any necessary changes; you are now ready to publish your resource and make it available to your students.

## Step 11: Publish your resource

When your case is finished you will want to make it available to your students. This section will show you how... but first some common questions.

### Some Common Questions

#### Q. Can I still edit my quiz?

A. Yes. You can only edit the quiz using Articulate. When you publish the file it will create a new set of files that are used to deliver the quiz. Everytime you make an edit you will need to re-publish your quiz.

#### Q. Do my students need Articulate installed on their computer?

A. No. To view your quiz your students will need the link for where to find the quiz, and Adobe Flash installed on their computer. Flash is installed on 95% of computers world-wide.

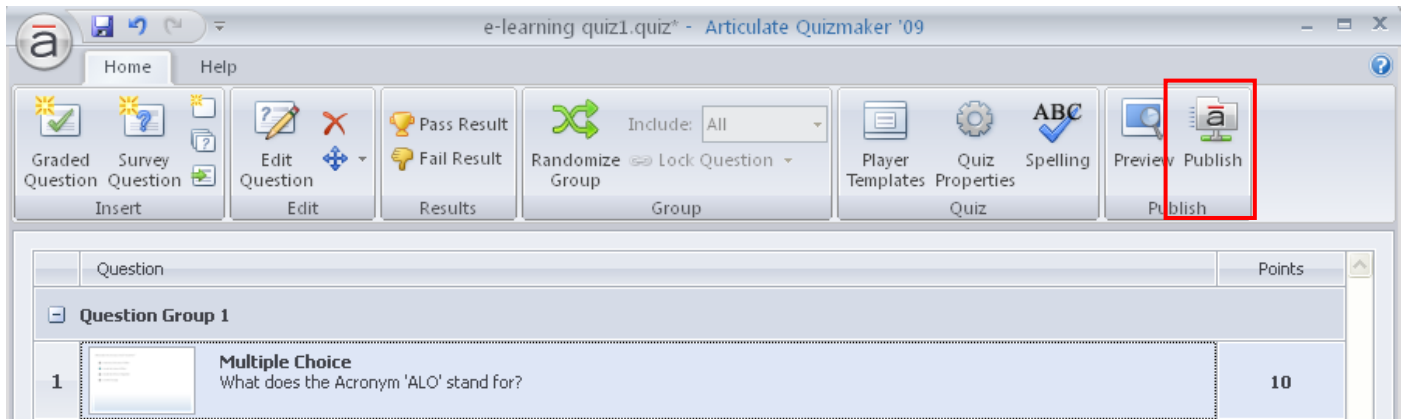
## Q. Where can students access my quiz?

A. The best place for your students to access your quiz is to link it to the Curriculum Management System. Currently the best way to do this is by contacting your ICT support and they will help you to upload the resource.

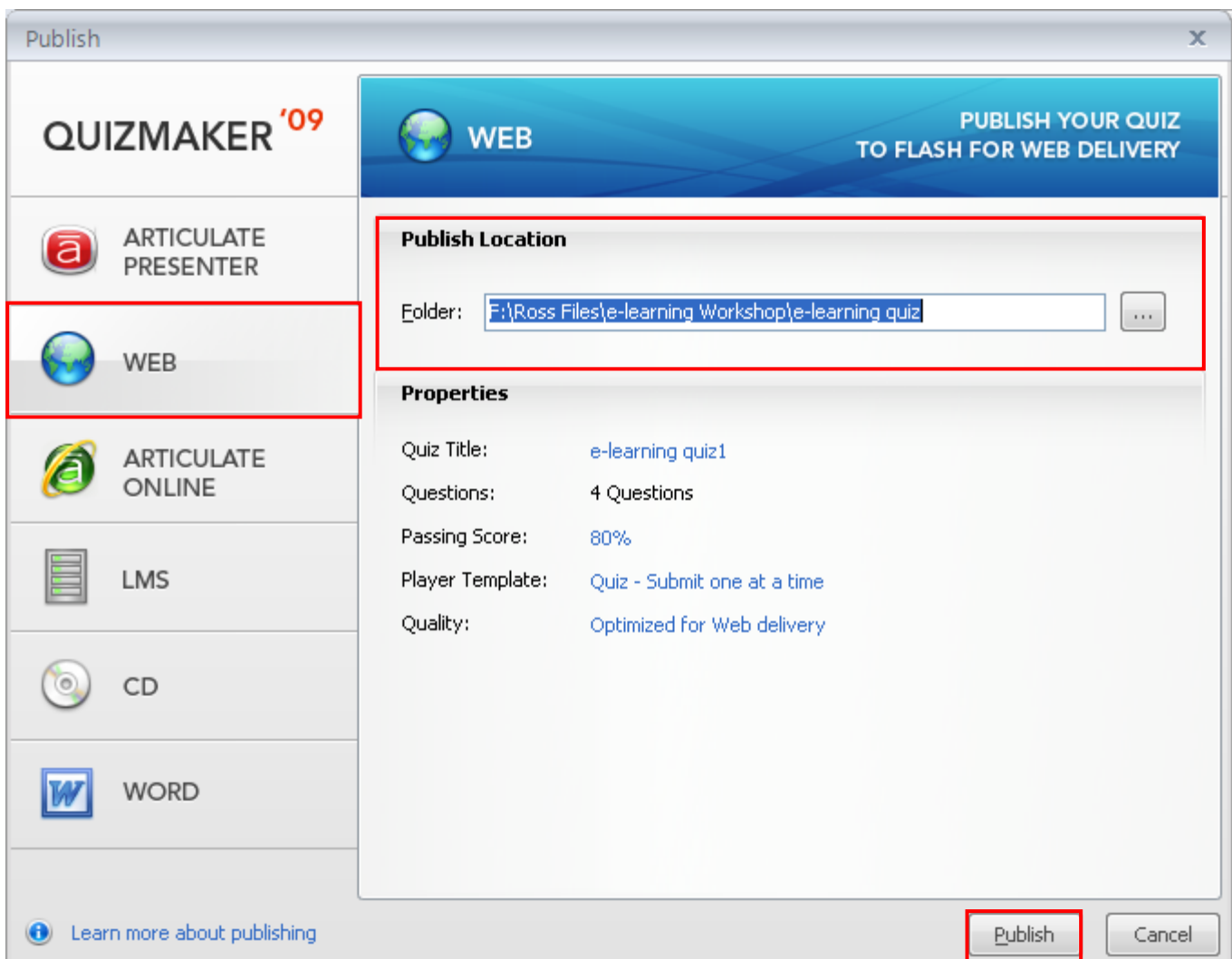
### Publishing your case in 3 simple steps

#### Step 1: Start the Publish

You start this process by clicking on the Publish button found in the menu on the main screen.



You will have a number of options available for you. For this exercise we will publish to “web” as it is the most flexible and easy to use form of publishing.





Select 'Web' from the pop-up dialogue box and select your location, and then click 'Publish'.

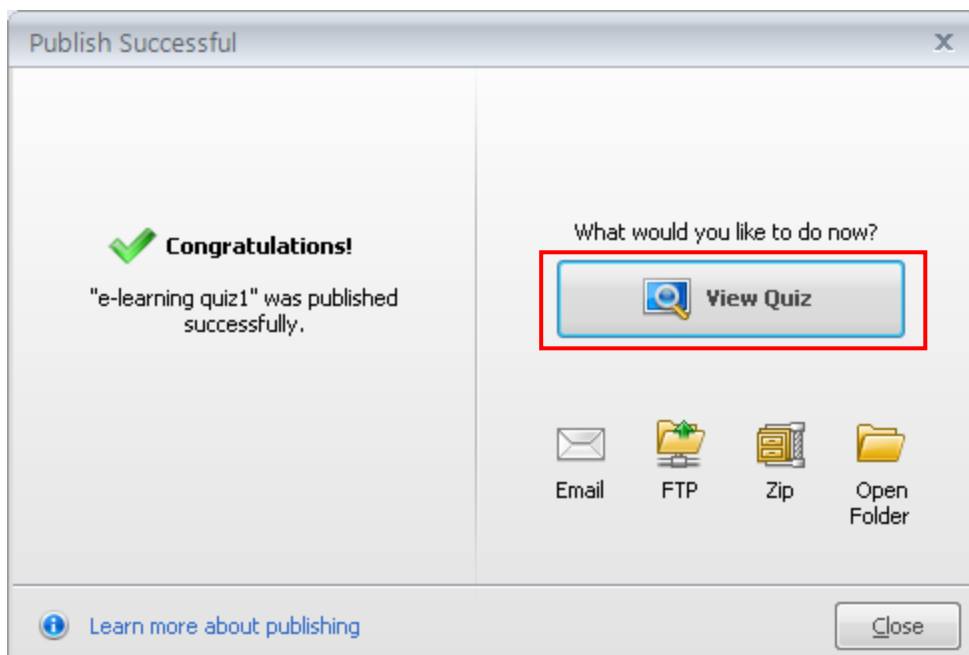
Below explains the different publishing formats and their uses.

- Articulate Presenter – publish directly into an e-learning package created in Presenter
- Web – Creates a set of files that can be viewed from a website, or from your computer. The most easy to use form of publishing for simple re-use of the resource
- Articulate Online – not applicable
- LMS – This feature creates many other files and is to only be used to upload files into a compatible Learning Management System
- CD – Similar to web, but creates a ".exe" file that allows the e-learning tool to work without the user requiring to use an internet browser on their Windows computer
- Word – This creates a word document as a supporting file for the e-learning resource

#### Step 2: Viewing your quiz

After you select publish you will be able to view your case. All of the required files will now be available in the location that you published the resource to.

To view the case, simply click the "View Quiz" button. Alternatively you can manage your files using the additional options below.



#### Step 3: Completion

Well done, you have completed your case scenario quiz!

You will now need to get your students to view the case. There are many ways of doing this, but the best way is to create a link to your resource from your content in the CMS.

If you are unsure how to do this you should contact your ICT team who will be happy to assist you.



## 12yo Boy with haematuria

Question 1 of 4 ▾

Point Value: 0

What is your initial feeling about this patient?

- ☐ Patient could have suffered a trauma to the bladder
- ☐ Patient could be suffering from Schistosomiasis
- ☐ Patient could have a stomach ulcer
- ☐ Patient is normal

Score so far: 0 points out of 0

SUBMIT

Your finished case can now be used for a number of teaching reasons:

- Revision tool
- Self-assessment to follow-up from face-to-face teaching
- A summary assessment that covers topics featured in an e-learning package
- An opportunity to experience decision making that is expected on the ward