

# Machine Learning For Kids :: Teachers' notes

<b>Worksheet</b>	<b>Chatbots</b>
<b>Activity</b>	Create a chatbot that can answer questions about a topic of your choice.
<b>Objective</b>	<b>Teach a computer to recognise questions</b> <ul style="list-style-type: none"> <li>How computers can be trained to recognise the intent behind writing.</li> <li>How chatbots are used to automate answering people's questions</li> </ul>
<b>Difficulty level</b>	Beginner
<b>Time estimate</b>	1 hour
<b>Summary</b>	Students will train a machine learning model to recognise questions by typing examples of how those questions could be asked. They will use this in Scratch to make a character that answers those questions.
<b>Topics</b>	sentiment analysis, supervised learning

## Setup

Each student will need:

<b>Print-outs</b>	Project worksheet (download from <a href="https://machinelearningforkids.co.uk/worksheets">https://machinelearningforkids.co.uk/worksheets</a> )  Blocks in Scratch scripts are colour-coded, so printing in colour will make it easier for students.
<b>Access</b>	Username and password for machinelearningforkids.co.uk

Class account will need:

<b>API keys</b>	<b>Watson Conversation</b> 1 workspace per student  One "Lite" API key is free but can only be used to create 5 workspaces One "Standard" API key can be used to create 20 workspaces  more detail at: <a href="https://github.com/daledane/ml-for-kids/raw/master/doc/machinelearningforkids-apikeys.pdf">https://github.com/daledane/ml-for-kids/raw/master/doc/machinelearningforkids-apikeys.pdf</a>
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## Help

<b>Potential issues</b>	<ul style="list-style-type: none"> <li>The worksheet tells students to make a chatbot that can answer five questions. If you think that might be too much typing for your students, you could tell them to train it to answer three or four questions instead.</li> <li>"https://machinelearningforkids.co.uk" is a long URL to type for some children. You may find it easier to set up a bookmark that they can click on instead.</li> </ul> <p>General troubleshooting and help at <a href="https://machinelearningforkids.co.uk/help">https://machinelearningforkids.co.uk/help</a></p>
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