

# Medium Level Scratch Lesson Plan

## “Question and Answer”

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### GOALS

1. Learn more about Scratch animation programming
2. Learn Scratch Skills that will lead into the Pong game lesson

### BIG IDEAS

Learn how to take some scratch skills and use their own ideas and inventiveness to create an interactive scratch environment.

### SKILLS TO LEARN

- How to use the Question and Answer commands in Scratch
- How to make the Sprite move with the mouse
- How to make the Sprite stay on one level of the Y Axis while moving with the mouse
- How to use the Turn command and how that relates to a compass and angles

#### **If time and experience level allows:**

- Introduce broadcast (when I receive)
- Sensing – touching
- Counter

### MATERIALS

- All computers installed with Scratch
- Question and Answer Activity Idea Sheets for each participant
- Very basic example of Question and Answer
  - no art detail to allow their creativity to come from unique place
- Your own working examples of the lesson to reference if needed, don't show this at the beginning of the lesson, but help them develop their own ideas.

### ACTIVITY PLAN

#### **WARM UP ACTIVITY:**

#### **Compass/Angle Game Ideas**

1. **A matching game where half of the participants have a picture of an angle and the other half have the angle name (90 degrees, 180 degrees, etc.) and they have to find each other.**
2. **Get compasses and send participants on a little adventure/path where they need to end up at a certain place using the directions given for the compass**

#### **THE ACTIVITY**

- Break up your class room into small groups so that each teacher has a similar number of students
- Have each teacher introduce Question and Answer skills, a little at the beginning and more as they go along, sneak in the explanations as they develop their scratch environment and when they ask questions or need help moving forward

- Reference Skills to learn section above to know what to include.
- Reference the Questions and Answers Activity Ideas Brochure as they proceed with their creation.
- Encourage participants to provide explanations for each other

## **Activity Flow**

1. **Draw a Character/Sprite**
2. **Write down on paper some questions you would like your Sprite to ask.**
3. **Have your sprite ask those questions.**
4. **Have the answers show or be used to make something else happen.**
5. **Have your Sprite move wherever the mouse moves.**
6. **Now limit your Sprites movement to sideways across the screen.**  
**No up and down movement.**
7. **Have a sprite turn a certain amount of degrees at some point(s) in the program.**

### **Additional Challenges if time and experience allows**

- **Send a broadcast message and make something cool happen**
- **Add a Counter**
- **Use touch to make something happen**

### **CIRCLE UP:**

**Have each group share their creations and talk about what they learned**