Code to Enhance Learning

Course 1: Lesson 5
Where is it?
Objective:

We will create application to show an object at different location using vocabulary of spatial relationship.
Spatial Relationship:

It is the location of one object from the other object. We use words like under, above, below, in front, behind to tell the spatial relationship between two objects.
Where is it?:

Thinking Questions:

1) What things we will need on the stage?
   1. A backdrop with instructions on stage
   2. Two sprites (i.e. a table and a glass) to show spatial relationship

2) What should happen on the stage?
   1. The glass will move to a desired spatial location w.r.t to the table when a given key is pressed on the key board.
   2. While the glass moves, an audio in my voice and a speech bubble would explain the spatial location.
Where is it? (Teacher models…)

Instructions:
1. Press A for Above!
2. Press B for Below!
3. Press O for On!
4. Press U for Under!
5. Press Green Flag to go to start position!

Start

- **when clicked**
  - go to x: 180 y: 120

- **when a key pressed**
  - say Above the table!
  - glide 1 secs to x: -14 y: 124

- **when b key pressed**
  - say Below the table!
  - glide 1 secs to x: -20 y: -130

- **when o key pressed**
  - play sound On
  - say On the table!
  - glide 1 secs to x: -17 y: 49

- **when u key pressed**
  - play sound Under
  - say Under the table!
  - glide 1 secs to x: -19 y: -56
Where is it? (Teacher works with kids...)

Instruction:
1. Press A for Above!
2. Press B for Below!
3. Press O for On!
4. Press U for Under!
5. Press Green Flag to go to start position!
Quiz 1:

Talk to your partner:
What will happen with the block?

A) sprite will directly jump to the location $x = 180$ and $y = 120$
B) sprite will slide to the location $x = 180$ and $y = 120$ from its current location
C) sprite will directly jump to the location $x = 180$ and $y = 120$ in 1 second
D) sprite will slide to the location $x = 180$ and $y = 120$ from its current location in 1 second

Let’s share.
Quiz 2:

Talk to your partner:
Say Yes or No and give reason.
We want to make an application to show spatial relationship between a glass and a table. We want to write program such that When the b is pressed on the key board the sprite will say “Below the table” and then glide to the location $x = -20$ and $y = -130$ in 1 second. Will the program given work?

Let’s share.
Where is it? (Kids work on their own...)

Instructions:
1. Press A for Above!
2. Press B for Below!
3. Press O for On!
4. Press U for Under!
5. Press Green Flag to go to start position!
Assessment
Closing:

1. What did we do today?

2. What is one thing that you liked the most?

3. What did you learn?
Thank you