

# Code to Enhance Learning

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**Course 1: Lesson 5**  
**Where is it?**

## Objective:

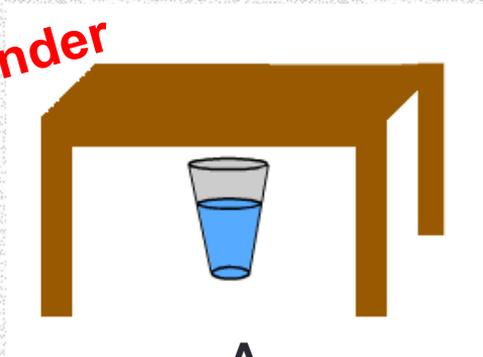
We will create application to show an object at different location using vocabulary of spatial relationship.



# 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.

**Under**



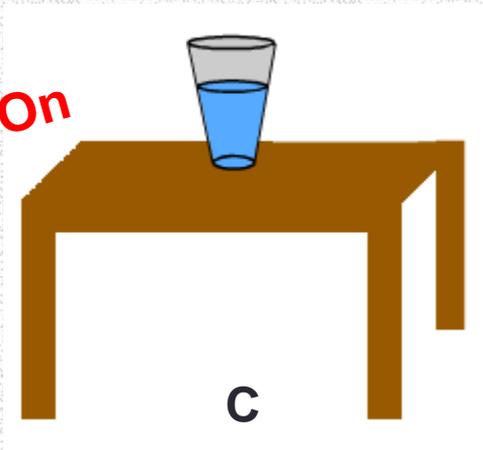
**A**

**Below**



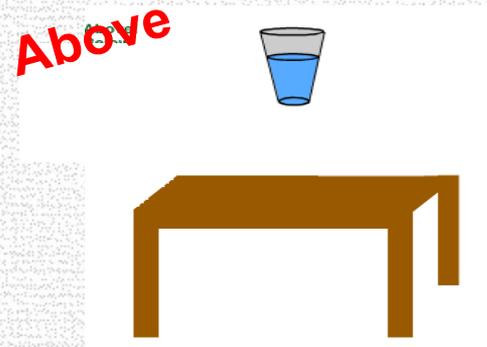
**B**

**On**



**C**

**Above**



**D**

## 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



x: -240 y: 180

Sprites

New sprite:    



Stage  
1 backdrop



Sprite1



Glass Water

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

**Above the table!**



**Start**



```

when green flag 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

```

x: -205 y: 180

Sprites





Stage 1 backdrop    Sprite1    Glass Water

New sprite:



# Quiz 1:



## Talk to your partner:

What will happen with the block

`go to x: 180 y: 120` ?

- 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.

```
when b key pressed
say Below the table!
go to x: 180 y: 120
```

# 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!

**Start**



x: -225 y: 180

Sprites New sprite:    



Stage  
1 backdrop



Sprite1



Glass Water

```

when green flag 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
  
```

# 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**