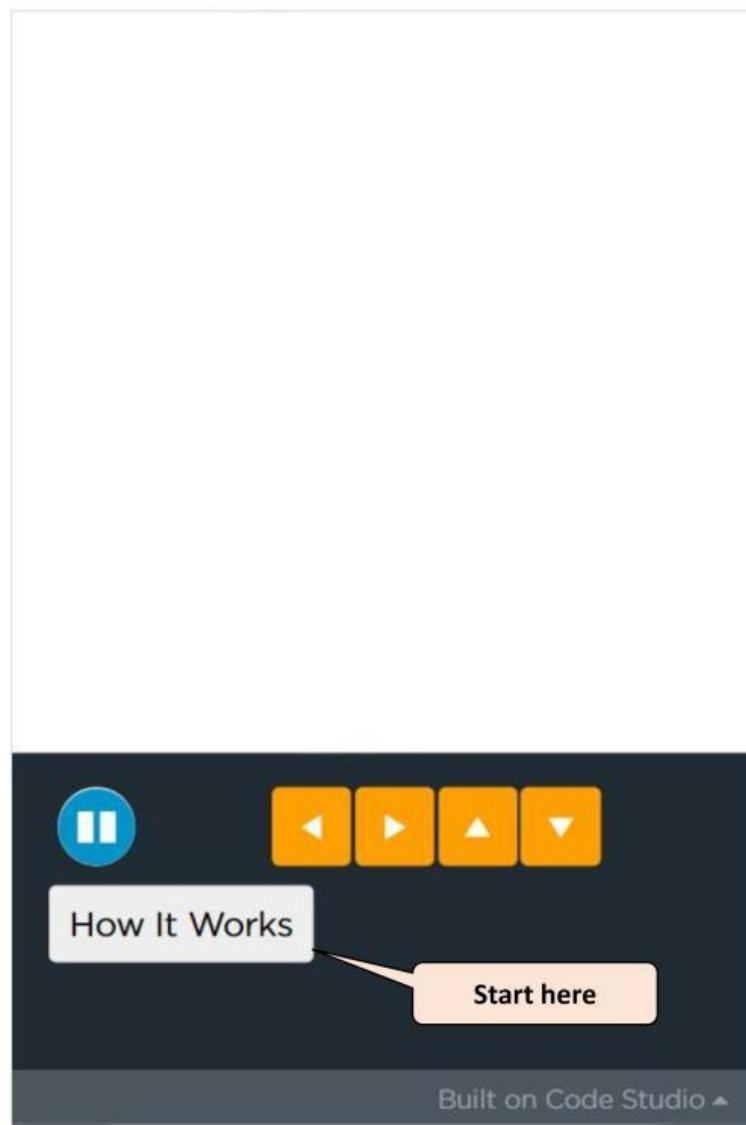


# Project 50



## Coding School

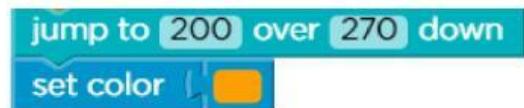


An interactive interface for a coding project. At the top, there are four yellow buttons: a blue double-slash button on the left and four orange directional buttons (left, right, up, down) on the right. Below these are two buttons: 'How It Works' on the left and 'Start here' on the right, with an arrow pointing from 'How It Works' to 'Start here'. At the bottom, a grey bar contains the text 'Built on Code Studio ▾'.

Let's create the structure of atom "H".

- ❖ For this, let's place the artist first. Use the "Jump to over down" block to move the following blocks. Choose the orange colour to create the first energy level of the H atom.

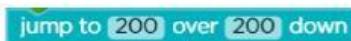
Use the "set color" block for that.



- ❖ Then draw a circle of radius 100 using the draw a circle block to create the first energy level.



- ❖ After creating the first energy level, set the artist's location as follows.



- ❖ Use the same blocks as above to make the core colour blue.

- ❖ Draw a circle of radius 30 using the draw a circle block to create the nucleus.



- ❖ After creating the nucleus, set the artist's location to be X=200 and Y=190 using the jump to over down block as follows.



- ❖ Create a function as Hydrogen by creating a function in Functions as follows.



- ❖ After creating H, apply the following blocks to make the artist turn left by 90 degrees and jump forward by 140 pixels.



- ❖ Use the same blocks as above to make the electron colour black.
- ❖ To create the electron in Hydrogen, create a circle of radius 5 as follows

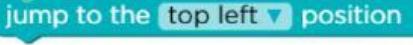


- ❖ Take the artist to the upper left corner of the screen by the "Jump to position" block. Use the value "top left" 

Choose the correct answer.

1. Select the desired block to create a circle with a diameter of 200 pixels.



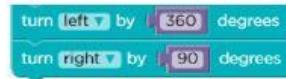
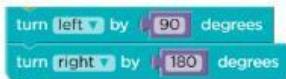
2.  What does this mean?

Jumps to the top left corner of the screen.

Jumps to the bottom left corner of the screen.

Turn left and jump up.

3. What blocks should be used to turn the artist facing the east direction to the west direction?



4. Select the block to apply to get the red colour for the brush colour.

comment: red

set color

set length to