

## Grade 4

### Chapter 5 More Activities using Scratch

Answer the following question:-

a. What is scratch used for?

**Ans.** Scratch is a visual programming language that allows to create interactive stories, games and animations.

b. What is sprit in scratch?

**Ans.** Sprites are the images on a Scratch computer program screen. Every Scratch program is made up of sprites and the scripts (instructions) that control them.

c. What is block in scratch?

**Ans.** Blocks are puzzle-piece shapes that are used to create code in Scratch. The blocks connect to each other vertically like a jigsaw puzzle.

d. What are the main components of scratch?

**Ans.**

There are four main elements of Scratch: the stage, the sprites, the script and the programming palette.

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e. What is script area in scratch?

**Ans.** The **area** on the right side of the project editor where **scripts** are assembled is called **script area**. Blocks from the block palette are dragged into the **script area** so the **script area** displays a stack of blocks connected to each other

f. What is the stage?

**Ans.** The stage is basically the background of the scratch project.

g. What does the following options do:-

1. **Motion:-** controls the up, down, right, left and rotation movements of sprites.
2. **Control:-** allows the specify things such as what starts and stops your sprites.
3. **Looks:-** affects the appearance of sprite such as colour and costume.
4. **Sensing:-** controls to sense sprite is touching the edge, another colour, another sprite, at a specific x or y coordinate, the sound volume etc.

5. **Sound:-** control sounds, pitches, and volume.
6. **Operators:-** logic operators including tools to perform match functions, select a random number, greater than, less than, equal to, etc.
7. **Pen:-** pen functions allows to draw lines and objects on the stage.
8. **Variables:-** create variables to hold numbers or text.

**h. Answer in short word:-**

1. What two things do all Scratch program have?  
Ans. sprites and scripts
2. What happen if the instruction block in Scratch are placed in wrong order?  
Ans. The program will not work properly
3. Where are the instruction blocks stored on a Scratch screen?  
Ans. The Block Palette
4. What would you use to change the location of sprite on the stage in scratch?  
Ans. coordinates allows to move sprite on the screen
5. What happen when the green flag symbol is clicked in a Scratch Program?  
Ans. The program starts
6. Where are sprites and scripts stored in a Scratch screen?  
Ans. Backpack
7. What word describes the instruction used to control sprites in Scratch?  
Ans. Script

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**A. Fill in the blanks.**

1. \_\_\_\_\_ is one of the easiest computer languages.
2. A computer follows stepwise instructions to complete any task, which is known as \_\_\_\_\_
3. \_\_\_\_\_ is a graphic character which moves on the stage.
4. The blocks in the \_\_\_\_\_ block allow the Sprite to draw lines on the stage, change the colour and thickness of lines.

**5. In Scratch, the Sprite moves on the \_\_\_\_\_ when you run a program.**

**(Ans. 1.Scratch, 2.Program, 3.Sprite, 4.Pen, 5.Stage)**

**B. State True or False.**

**1. A computer understands the language that we speak.**

**2. Block Palette is the place where you can create a script for the Sprite to do a specific task.**

**3. A script consists of at least two blocks.**

**4. You can turn the Sprite only in clockwise direction.**

**5. Scratch 2.0 projects are saved with the extension .sb2**

**(Ans. 1.False, 2.True, 3.True, 4.False, 5.True)**

**E. Answer the followings.**

**1. What do you know about Scratch?**

**Ans. Scratch is a computer programming language that lets us to create our own interactive stories, animations, games, music, and art. It provides an interactive environment to create a program by dragging blocks of code.**

**2. Explain the term Sprite.**

**Ans. Sprite is a small graphic character that performs actions in a Scratch project.**

**3. What is the use of Pen block menu?**

**Ans. The blocks in the Pen block menu allow the Sprite to draw lines on the stage, change the colour and thickness of lines.**

**4. What is the user of Sound block?**

**Ans. Sound block is used to add sound in a Scratch project.**

**5. What do you understand by Green Flag icon?**

**Ans. The Green Flag icon is placed at the top right corner of the stage screen. Clicking on the green flag will run the script step by step.**

**6. Define program.**

**Ans. A program is also called software, which tells the computer what to do. Everything that a computer does from starting up to shutting down is done by a program.**