

# SLIDE, TURN OR FLIP (TRANSLATION, ROTATION, REFLECTION)




**Purpose:** Students will be able to identify how a shape has been changed using the choices of slide, turn or flip (translation, rotation, reflection).

**Suggested Grade Level:** 4

**Math Subject:** Geometry 4.11

## **Equipment/Materials Needed:**

1. Numbered signs 1-12 listing exercise answer choices and two shapes showing a slide, turn or flip. (examples are provided)
2. Worksheet, pencil and answer key pencil for each pair.

<b>4.</b>  slide – jumping jacks turn – scissor kicks flip – cross crawls <b>JUMP TO #5</b>	<b>5.</b>   slide – jumping jacks turn – scissor kicks flip – cross crawls <b>CRABWALK TO #6</b>
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## **Directions:**

1. Place students in pairs.
2. Hand one student the worksheet and one the answer key.
3. Tell each pair they will be assigned a starting number 1-12. They will find that number posted on the wall in the classroom/activity area.
4. Tell student with worksheet to go to their assigned number, ask them to look at the two shapes and decide how the 1<sup>st</sup> shape moved to where the 2<sup>nd</sup> shape is.
5. Instruct students to circle the answer, slide-flip-turn, on their worksheet and place their sheet and pencil down.
6. Instruct students to perform the physical activity which corresponds with the answer they have chosen and look at their partner.
7. Instruct the partner to use the answer key to determine if students are correct. The partner will know this according to the exercise the student is participating in.
8. Tell the partner with the answer key to give a thumbs up or down according to their answer. After the partner gets a thumbs up they are to rotate to the next number, using the physical activity listed at the bottom of the sign.
9. Continue until the first partner has visited all 12 stations.
10. Have students change roles.

## **Teaching Suggestions:**

1. Remind students to move safely when carrying pencils.
2. Have students circle the number where they started and begin at that number on their worksheet.
3. Remind partners to watch each other.

## **Modification/Variations:**

1. This can be adapted to fit any subject with multiple choices for answers.

*This lesson was developed by the School Health Initiative Program (SHIP) for the Williamsburg James City County Public Schools (WJCCPS), Williamsburg, VA. SHIP is funded by the Williamsburg Community Health Foundation (WCHF). Parts or all of this lesson can be used and reproduced without permission provided that SHIP, WJCCPS and WCHF are credited.*



*Williamsburg Community  
Health Foundation*

# SLIDE, TURN or FLIP??

Name \_\_\_\_\_ Date \_\_\_\_\_

At your assigned station, choose how the first shape moved. Circle the word SLIDE, TURN or FLIP to record your answer. Participate in the activity that goes with your choice. If your partner gives you a “thumbs up”, you are correct. If you get a “thumbs down”, look at the shapes again and make another choice.

Participate in the new activity that goes with that choice. Move to your next station in the direction at the bottom of your station sheet.

1. Slide Turn Flip

2. Slide Turn Flip

3. Slide Turn Flip

4. Slide Turn Flip

5. Slide Turn Flip

6. Slide Turn Flip

7. Slide Turn Flip

8. Slide Turn Flip

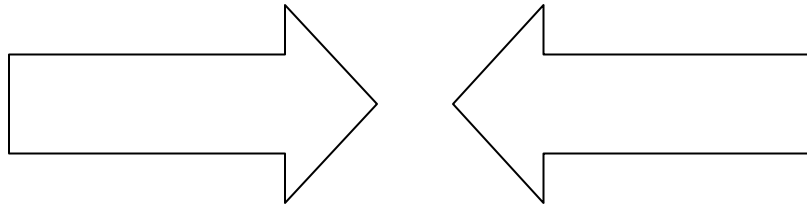
9. Slide Turn Flip

10. Slide Turn Flip

11. Slide Turn Flip

12. Slide Turn Flip

# 1.



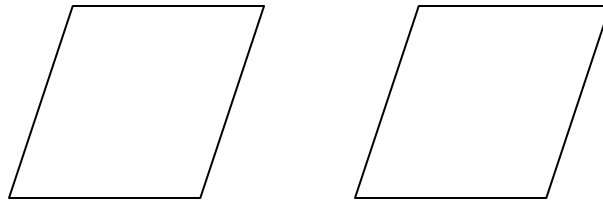
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## CRABWALK TO #2

# 2.



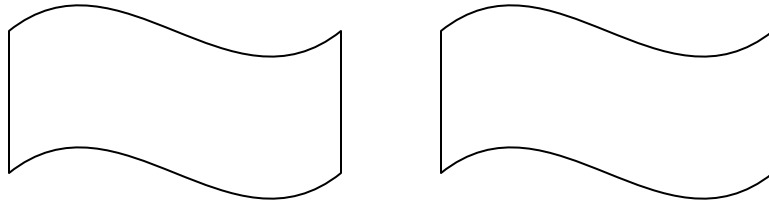
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## JUMP TO #3

# 3.



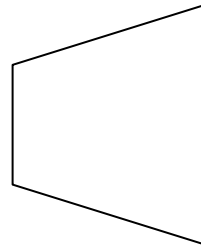
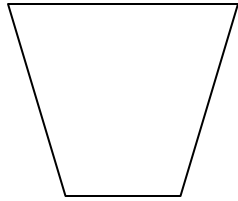
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## SWIM TO # 4

# 4.



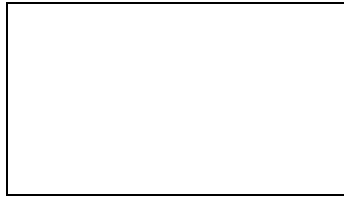
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## GALLOP TO # 5

# 5.



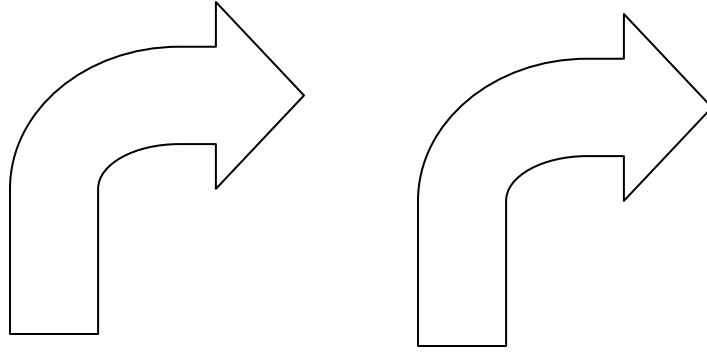
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## HOP TO # 6

# 6.



SLIDE – Jumping Jacks

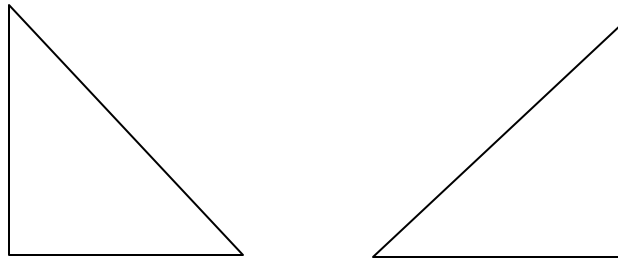
TURN – Scissor Kicks

FLIP – Cross crawls

## SKIP TO # 7



# 7.



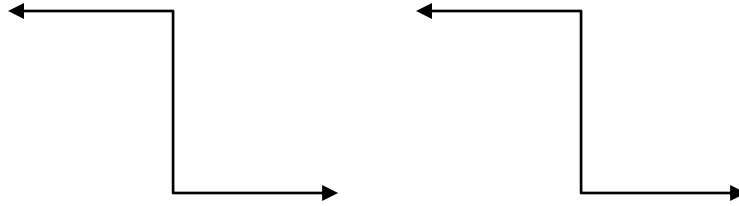
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## WALK BACKWARDS TO # 8

# 8.



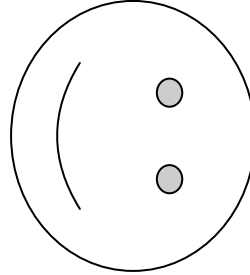
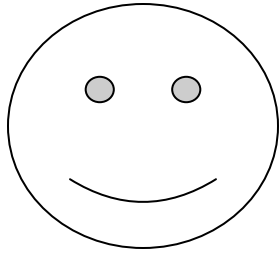
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## MARCH TO # 9

# 9.



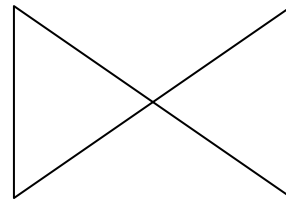
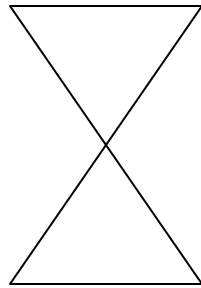
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## SKATE TO # 10

# 10.



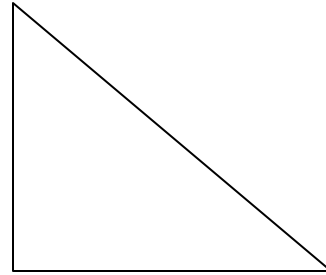
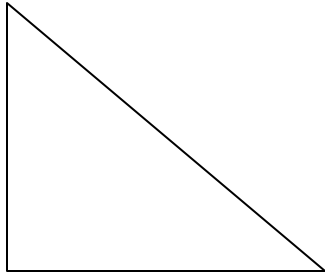
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## WALK TO # 11

# 11.



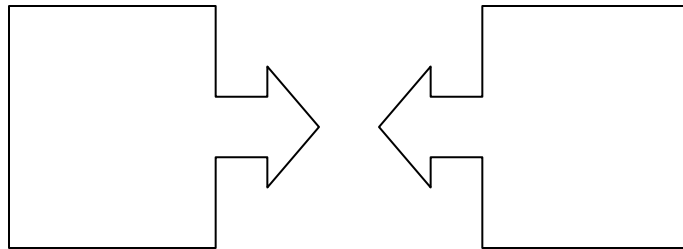
SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

## HOP TO # 12

# 12.



SLIDE – Jumping Jacks

TURN – Scissor Kicks

FLIP – Cross crawls

**JUMP TO # 1**

# ANSWER KEY

1. Cross crawls
2. Jumping jacks
3. Jumping jacks
4. Scissor kicks
5. Scissor kicks
6. Jumping Jacks
7. Cross Crawls
8. Jumping Jacks
9. Scissor Kicks
10. Scissor Kicks
11. Jumping jacks
12. Cross crawls