

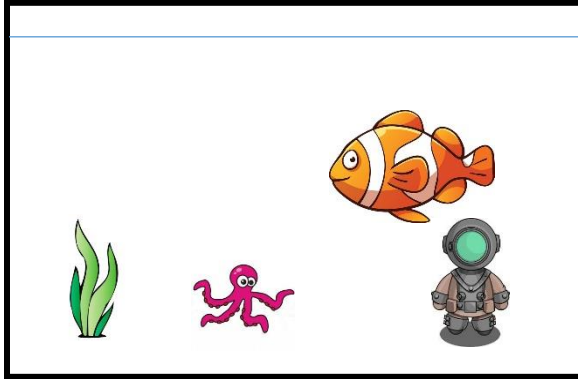
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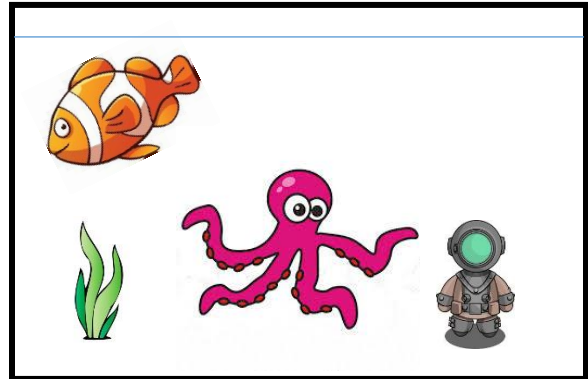
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## MOTION & SPEED CLASSWORK 2

Look at the 2 pictures below, and use what you see to answer the following questions.



**PICTURE A**



**PICTURE B**

1. Name an object in the pictures that can be used as a frame of reference.
  
2. What characteristics does the object you chose have that make it useful as a frame of reference?
  
3. What indicators/evidence do you have that the octopus moved?
  
4. What indicators/evidence do you have that the diver did not move?
  
5. What indicators/evidence do you have that the fish moved?



Use your knowledge of speed to answer the following questions.

6. Circle all that are true about speed?

- A. it is the rate of change in position of an object
- B. it tells how fast or slow an object is moving
- C. uses labels like seconds or hours
- D. is a way to compare the motion of objects

7. If you increase the speed of an object, but it goes the same distance, the time it takes to go that distance will be...

- A. less
- B. more
- C. the same

8. If you decrease the amount of time you travel a certain speed, the distance you go will be...

- A. less
- B. more
- C. the same

9. Define the following

Constant speed –

Average speed –

Instantaneous speed –



Speed Problems:

**Write the formula.**

**Show your substitutions.**

**Label & Circle answer.**

10. Riley the turtle walked for 2 hours. He managed to travel 1 mile. What was his speed?

11. Patrick the leprechaun slid down the 20 mile long rainbow into his pot of gold. It took him 2 hours to make the trip. What was his speed?

13. Mara's podracer travelled the 100 mile long course at a speed of 200 miles/hour. How much time did it take her?

14. Olivia's podracer travelled the 100 mile course and it took her 0.1 hours. Did she beat Mara?

15. Tom's podracer crashed on turn 1 of the racetrack. He's going 0 miles/hour. How long will it take him to finish the 100 mile long course?

