Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Newton’s 3rd Law of Motion Practice

For each picture, tell the reaction force and draw the force model (arrow) Use different colors. Then, answer the questions that follow.

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| --- | --- | --- |
| [This Photo](https://www.aliem.com/2016/pem-pearls-pediatric-concussions/) by Unknown Author is licensed under [CC BY-NND](https://creativecommons.org/licenses/by-nc-nd/3.0/)  Action: Ball hitting head.  Reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Who is hitting with the most force? | [This Photo](https://www.aliem.com/2016/pem-pearls-pediatric-concussions/) by Unknown Author is licensed under [CC BY-NND](https://creativecommons.org/licenses/by-nc-nd/3.0/)  Action: Foot kicking the ball.  Reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Who is hitting with the most force? | [This Photo](http://www.twopeasandtheirpod.com/this-and-that-25/) by Unknown Author is licensed under [CC BY-SA-NC](https://creativecommons.org/licenses/by-nc-sa/3.0/)  [This Photo](https://www.aliem.com/2016/pem-pearls-pediatric-concussions/) by Unknown Author is licensed under [CC BY-NND](https://creativecommons.org/licenses/by-nc-nd/3.0/)  Action: Finger touching nose.  Reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Who is hitting with the most force? |
| [This Photo](http://flickr.com/photos/baggis/5031891163) by Unknown Author is licensed under [CC BY-NC](https://creativecommons.org/licenses/by-nc/3.0/)  [This Photo](https://www.aliem.com/2016/pem-pearls-pediatric-concussions/) by Unknown Author is licensed under [CC BY-NND](https://creativecommons.org/licenses/by-nc-nd/3.0/)  Action: Bug hitting windshield.  Reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Who is hitting with the most force? | [This Photo](https://en.wikipedia.org/wiki/Paddle_ball) by Unknown Author is licensed under [CC BY-SA](https://creativecommons.org/licenses/by-sa/3.0/)  [This Photo](https://www.aliem.com/2016/pem-pearls-pediatric-concussions/) by Unknown Author is licensed under [CC BY-NND](https://creativecommons.org/licenses/by-nc-nd/3.0/)  Action: Bug hitting windshield.  Reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Who is hitting with the most force? | Come up with your own.  Action: Bug hitting windshield.  Reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Who is hitting with the most force? |
| If a baseball was hit with a bat with a force of 500 N, how much force did the ball exert?   1. Less than 500N 2. More than 500N 3. 500 N   Explain: | A phone is thrown against the wall at 150N, how much force will the wall exert back?   1. Less than 150N 2. More than 150N 3. 150 N   Explain: | What is Newton’s Third Law of motion? |