
Exercise D3: Impact: Near Earth Objects

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: What do all the labeled asteroids in the present view seem to have in common?

- a. They all move faster than the Earth.
- b. They all cross or closely approach Earth's orbit.
- c. They will all eventually collide with the Earth.
- d. They all have the same perihelion distance.

Question 2: How much kinetic energy would be released in the impact of such an asteroid upon Earth?

- a. 1.1×10^{20} Joules
- b. 1.1×10^{14} Joules
- c. 2.3×10^{14} Joules
- d. 2.3×10^{20} Joules

Question 3: When does Starry Night predict that such a collision might happen?

- a. Mid-March
- b. Early April
- c. Mid-April
- d. Late April