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. $1.1 \times 10^{20}$ Joules
- [ ] b. $1.1 \times 10^{14}$ Joules
- [ ] c. $2.3 \times 10^{14}$ Joules
- [ ] d. $2.3 \times 10^{20}$ 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