

## Video. What caused the Cambrian explosion?

### Task 1:

Write out all the names of the invertebrate marine animals and organisms mentioned in the video.

### Task 2:

Watch the video and answer the following questions (take notes):

1. How many million years ago the Earth was a barren wilderness?
2. What gave rise to most of the diversity of animal life that now exists on Earth? Is anything known about the cause of it?
3. Speak about the Ediacaran period and its animals.
4. What is the theory of the availability of oxygen about?
5. What is Snowball Earth?
6. What is The Increasing Mineral availability theory about?
7. What is Evolutionary innovation?
8. What is ecological feedback?
9. What do scholars say about vision?
10. What is the true significance of the Cambrian explosion?

Task 3. The video presents several different hypotheses for the cause of the Cambrian Explosion. Complete the table below by briefly summarizing each theory and noting one piece of evidence or reasoning given for it.

| <i>Hypothesis</i>                             | <i>Summary of the Theory</i> | <i>Evidence/Reasoning Mentioned</i> |
|---|------------------------------|-------------------------------------|
| <b>1. Oxygen Levels</b>                       |                              |                                     |
| <b>2. Mineral Availability</b>                |                              |                                     |
| <b>3. Genetic &amp; Anatomical Innovation</b> |                              |                                     |
| <b>4. Ecological Feedback (Predator-Prey)</b> |                              |                                     |
| <b>5. The Role of Vision</b>                  |                              |                                     |
| <b>6. Mass Extinction Event</b>               |                              |                                     |