

### Exercise 1. Match the words to their definitions

<ol style="list-style-type: none"><li>1. Bedrock (n)</li><li>2. Stride (n)</li><li>3. Enable (v)</li><li>4. Medium (n)</li><li>5. Derive (v)</li><li>6. Property (n)</li><li>7. Probe (v)</li><li>8. Bend (v)</li><li>9. Capture (v)</li><li>10. Chasm (n)</li><li>11. Quitter (n)</li><li>12. Hint (v)</li></ol>	<ol style="list-style-type: none"><li>a) A substance that something exists or grows in or that it travels through;</li><li>b) To get or obtain smth;</li><li>c) A quality of a substance or material;</li><li>d) An important positive development;</li><li>e) The main principles, a strong base for something;</li><li>f) To allow to do smth;</li><li>g) To curve, to change the position;</li><li>h) To search into or examine smth;</li><li>i) A person who gives up easily instead of finishing smth;</li><li>j) To represent or describe smth very accurately;</li><li>k) A very large distance between two opinions.</li><li>l) to suggest something in an indirect way</li></ol>
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### Exercise 2. Complete the gaps using the words in the box.

*strides, enabled, medium, bedrock, probed, properties, quitter, chasm, hinted, bending, captures, derived.*

1. You can imagine it like the \_\_\_\_\_ that the world of physics is built from.
2. Newton also made \_\_\_\_\_ in field of optics.
3. Telescope \_\_\_\_\_ to peer into the depth of space.
4. He \_\_\_\_\_ the wonderfully elegant rules of electromagnetism.
5. The bacteria were growing in a sugar \_\_\_\_\_.
6. One of the \_\_\_\_\_ of copper is that it conducts electricity very well.
7. The force of gravity comes from objects \_\_\_\_\_ spacetime.
8. Atomic theory \_\_\_\_\_ the nature of the atom.
9. I like her because she's not a \_\_\_\_\_. She always gets things done.
10. There were just a few of holes in experiments that \_\_\_\_\_ at smth more;
11. This book \_\_\_\_\_ all information about optics that is known for scientists so far.
12. You can help bridge the \_\_\_\_\_ of ignorance, fear and misunderstanding.

### Exercise 3. Write down the names of the branches and the theories of physics.

1. \_\_\_\_\_ is the description of electric and magnetic fields.
2. \_\_\_\_\_ covers the properties and motion of solid objects.
3. \_\_\_\_\_ is the description of the flow of liquids and gases.
4. \_\_\_\_\_ is the description of large complex systems and how small differences in initial conditions can lead to very different final outcomes.
5. \_\_\_\_\_ is how energy can travel through disturbances of a medium.
6. \_\_\_\_\_ is the description of energy and how it passes from one form to another.
7. \_\_\_\_\_ is the physics of light and how it travels through different materials.
8. \_\_\_\_\_ predicts that the speed of light is constant for all observers.
9. \_\_\_\_\_ says that space and time are part of the same fabric called spacetime.
10. \_\_\_\_\_ probed the nature of the atom.
11. \_\_\_\_\_ describes the quantum physics of many atoms together in solids and liquids.
12. \_\_\_\_\_ describes how the nucleus of atoms behave.

13. \_\_\_\_\_ studies fundamental subatomic particles.
14. \_\_\_\_\_ captures all of quantum physics and combines it with special theory of relativity.