

Scientific Questions for Scientific Thinkers

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Intellectual Development Foundation

Preface

This piece of writing is a guide which consists of generic scientific questions for scientific thinkers. These generic questions are based on the properties which allow us to study anything systematically. The questions which are systematically designed can guide students to study anything systematically. For teachers, this provides a Simple Unified Instructional System (SUIS) to guide students to study anything systematically. For students, this is a scientific thinking supplement to any textbook for any science course. Teachers can use this to design science instruction, assignments, and tests. Students can use this to improve their perspective in any domain of science.

Systematic generic scientific thinking skills apply to all sciences. For example, scientific thinkers are clear as to the purpose at hand and the question at issue. They question information, conclusions, and points of view. They strive to be accurate, precise, and relevant. They seek to think beneath the surface, to be logical, and objective. They apply these skills to their reading and writing as well as to their speaking and listening. They apply them in professional and personal life.

When this guide is used as a supplement to the science textbook in multiple courses, students begin to perceive the application of scientific thinking to many domains in everyday life. And if their instructors provide examples of the application of scientific thinking to daily life, students begin to see scientific thinking as a tool for improving the quality of their lives.

If you are a student using this guide, get in the habit of carrying it with you to every science class. Consult it frequently in analyzing and synthesizing what you are learning. Aim for deep internalization of the principles you find in this - until using them becomes second nature.

If successful, this guide will serve faculty, students, and the science program simultaneously. This work is based on the *Simple Unified Instructional System* developed by Intellectual Development Foundation. This piece of writing is not organized into chapters. Every page illustrates how different things can be questioned exhaustively with systematic generic scientific questions.

Excellence in scientific thinking must be cultivated systematically.

Heart

What properties of heart allow us to study it systematically?

Listed below are the properties of heart which allow us to study it systematically.

1. Divisibility

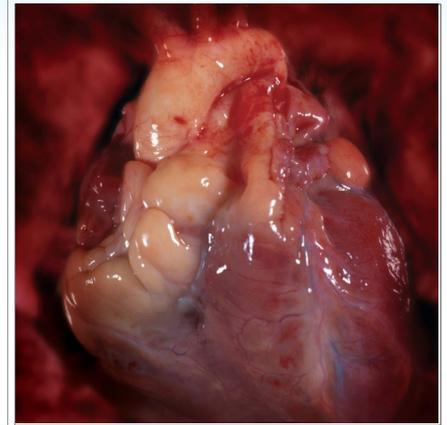
Can heart exhibit divisibility? Yes. Heart has divisibility and it can be divided into things called the parts of heart.

- What are the parts of heart?

2. Comparability

Can heart exhibit comparability? Yes. Heart has comparability and it can be compared to all the other things. Anything which cannot be compared to heart is neither different nor similar to heart.

- What is that which is neither different nor similar to heart?



Hai! You know well about heart, but do you have the knowledge to answer the questions about heart?

3. Connectivity

Can heart exhibit connectivity? Yes. Heart has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to heart?

4. Disturbability

Can heart exhibit disturbability? Yes. Heart has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect heart?

5. Reorderability

Can heart exhibit reorderability? Yes. Heart has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of heart?

6. Substitutability

Can heart exhibit substitutability? Yes. Heart has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for heart?

7. Satisfiability

Can heart exhibit satisfiability? Yes. Heart has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by heart?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Pericardium

What properties of pericardium allow us to study it systematically?

Listed below are the properties of pericardium which allow us to study it systematically.

1. Divisibility

Can pericardium exhibit divisibility? Yes. Pericardium has divisibility and it can be divided into things called the parts of pericardium.

- What are the parts of pericardium?

2. Comparability

Can pericardium exhibit comparability? Yes. Pericardium has comparability and it can be compared to all the other things. Anything which cannot be compared to pericardium is neither different nor similar to pericardium.

- What is that which is neither different nor similar to pericardium?

3. Connectivity

Can pericardium exhibit connectivity? Yes. Pericardium has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to pericardium?

4. Disturbability

Can pericardium exhibit disturbability? Yes. Pericardium has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect pericardium?

5. Reorderability

Can pericardium exhibit reorderability? Yes. Pericardium has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of pericardium?

6. Substitutability

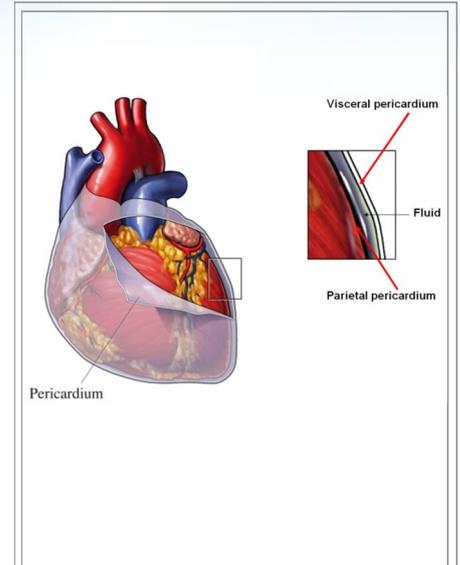
Can pericardium exhibit substitutability? Yes. Pericardium has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for pericardium?

7. Satisfiability

Can pericardium exhibit satisfiability? Yes. Pericardium has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by pericardium?



Hai! You know well about pericardium, but do you have the knowledge to answer the questions about pericardium?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Epicardium

What properties of epicardium allow us to study it systematically?

Listed below are the properties of epicardium which allow us to study it systematically.

1. Divisibility

Can epicardium exhibit divisibility? Yes. Epicardium has divisibility and it can be divided into things called the parts of epicardium.

- What are the parts of epicardium?

2. Comparability

Can epicardium exhibit comparability? Yes. Epicardium has comparability and it can be compared to all the other things. Anything which cannot be compared to epicardium is neither different nor similar to epicardium.

- What is that which is neither different nor similar to epicardium?

3. Connectivity

Can epicardium exhibit connectivity? Yes. Epicardium has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to epicardium?

4. Disturbability

Can epicardium exhibit disturbability? Yes. Epicardium has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect epicardium?

5. Reorderability

Can epicardium exhibit reorderability? Yes. Epicardium has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of epicardium?

6. Substitutability

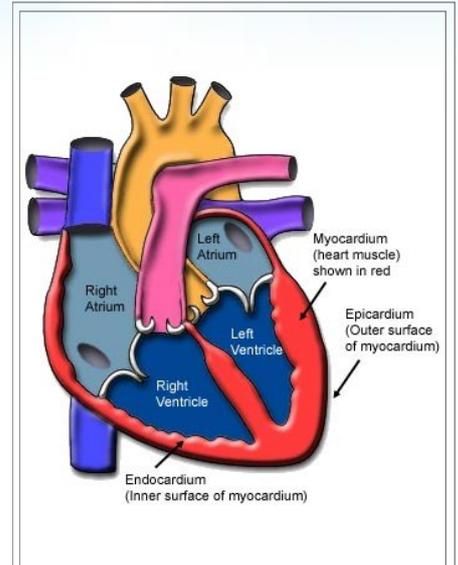
Can epicardium exhibit substitutability? Yes. Epicardium has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for epicardium?

7. Satisfiability

Can epicardium exhibit satisfiability? Yes. Epicardium has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by epicardium?



Hai! You know well about epicardium, but do you have the knowledge to answer the questions about epicardium?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Myocardium

What properties of myocardium allow us to study it systematically?

Listed below are the properties of myocardium which allow us to study it systematically.

1. Divisibility

Can myocardium exhibit divisibility? Yes. Myocardium has divisibility and it can be divided into things called the parts of myocardium.

- What are the parts of myocardium?

2. Comparability

Can myocardium exhibit comparability? Yes. Myocardium has comparability and it can be compared to all the other things. Anything which cannot be compared to myocardium is neither different nor similar to myocardium.

- What is that which is neither different nor similar to myocardium?

3. Connectivity

Can myocardium exhibit connectivity? Yes. Myocardium has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to myocardium?

4. Disturbability

Can myocardium exhibit disturbability? Yes. Myocardium has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect myocardium?

5. Reorderability

Can myocardium exhibit reorderability? Yes. Myocardium has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of myocardium?

6. Substitutability

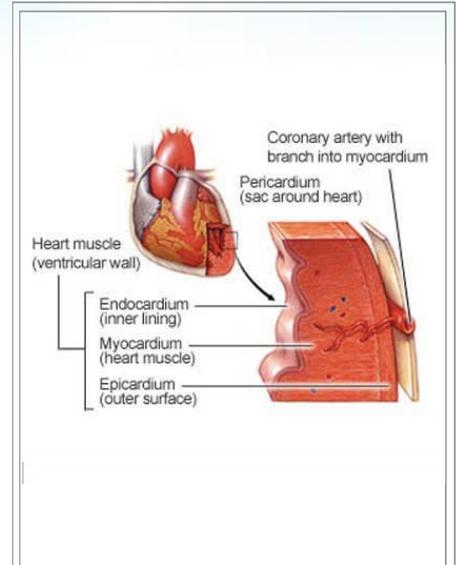
Can myocardium exhibit substitutability? Yes. Myocardium has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for myocardium?

7. Satisfiability

Can myocardium exhibit satisfiability? Yes. Myocardium has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by myocardium?



Hai! You know well about myocardium, but do you have the knowledge to answer the questions about myocardium?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Endocardium

What properties of endocardium allow us to study it systematically?

Listed below are the properties of endocardium which allow us to study it systematically.

1. Divisibility

Can endocardium exhibit divisibility? Yes. Endocardium has divisibility and it can be divided into things called the parts of endocardium.

- What are the parts of endocardium?

2. Comparability

Can endocardium exhibit comparability? Yes. Endocardium has comparability and it can be compared to all the other things. Anything which cannot be compared to endocardium is neither different nor similar to endocardium.

- What is that which is neither different nor similar to endocardium?

3. Connectivity

Can endocardium exhibit connectivity? Yes. Endocardium has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to endocardium?

4. Disturbability

Can endocardium exhibit disturbability? Yes. Endocardium has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect endocardium?

5. Reorderability

Can endocardium exhibit reorderability? Yes. Endocardium has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of endocardium?

6. Substitutability

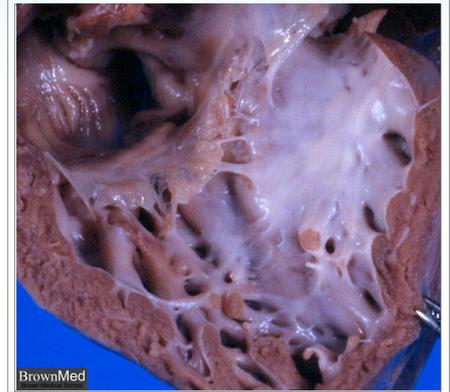
Can endocardium exhibit substitutability? Yes. Endocardium has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for endocardium?

7. Satisfiability

Can endocardium exhibit satisfiability? Yes. Endocardium has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by endocardium?



Hai! You know well about endocardium, but do you have the knowledge to answer the questions about endocardium?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Atrium

What properties of atrium allow us to study it systematically?

Listed below are the properties of atrium which allow us to study it systematically.

1. Divisibility

Can atrium exhibit divisibility? Yes. Atrium has divisibility and it can be divided into things called the parts of atrium.

- What are the parts of atrium?

2. Comparability

Can atrium exhibit comparability? Yes. Atrium has comparability and it can be compared to all the other things. Anything which cannot be compared to atrium is neither different nor similar to atrium.

- What is that which is neither different nor similar to atrium?

3. Connectivity

Can atrium exhibit connectivity? Yes. Atrium has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to atrium?

4. Disturbability

Can atrium exhibit disturbability? Yes. Atrium has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect atrium?

5. Reorderability

Can atrium exhibit reorderability? Yes. Atrium has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of atrium?

6. Substitutability

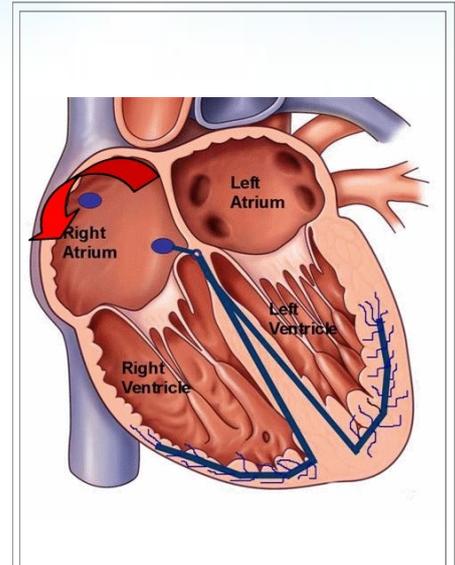
Can atrium exhibit substitutability? Yes. Atrium has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for atrium?

7. Satisfiability

Can atrium exhibit satisfiability? Yes. Atrium has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by atrium?



Hai! You know well about atrium, but do you have the knowledge to answer the questions about atrium?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Ventricle

What properties of ventricle allow us to study it systematically?

Listed below are the properties of ventricle which allow us to study it systematically.

1. Divisibility

Can ventricle exhibit divisibility? Yes. Ventricle has divisibility and it can be divided into things called the parts of ventricle.

- What are the parts of ventricle?

2. Comparability

Can ventricle exhibit comparability? Yes. Ventricle has comparability and it can be compared to all the other things. Anything which cannot be compared to ventricle is neither different nor similar to ventricle.

- What is that which is neither different nor similar to ventricle?

3. Connectivity

Can ventricle exhibit connectivity? Yes. Ventricle has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to ventricle?

4. Disturbability

Can ventricle exhibit disturbability? Yes. Ventricle has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect ventricle?

5. Reorderability

Can ventricle exhibit reorderability? Yes. Ventricle has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of ventricle?

6. Substitutability

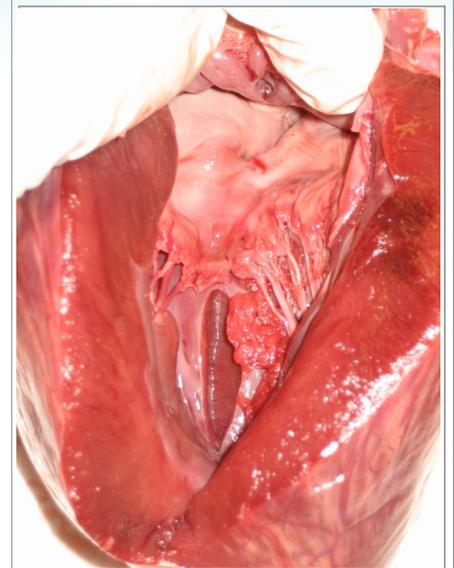
Can ventricle exhibit substitutability? Yes. Ventricle has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for ventricle?

7. Satisfiability

Can ventricle exhibit satisfiability? Yes. Ventricle has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by ventricle?



Hai! You know well about ventricle, but do you have the knowledge to answer the questions about ventricle?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Sino auricular node

What properties of sino auricular node allow us to study it systematically?

Listed below are the properties of sino auricular node which allow us to study it systematically.

1. Divisibility

Can sino auricular node exhibit divisibility? Yes. Sino auricular node has divisibility and it can be divided into things called the parts of sino auricular node.

- What are the parts of sino auricular node?

2. Comparability

Can sino auricular node exhibit comparability? Yes. Sino auricular node has comparability and it can be compared to all the other things. Anything which cannot be compared to sino auricular node is neither different nor similar to sino auricular node.

- What is that which is neither different nor similar to sino auricular node?

3. Connectivity

Can sino auricular node exhibit connectivity? Yes. Sino auricular node has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to sino auricular node?

4. Disturbability

Can sino auricular node exhibit disturbability? Yes. Sino auricular node has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect sino auricular node?

5. Reorderability

Can sino auricular node exhibit reorderability? Yes. Sino auricular node has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of sino auricular node?

6. Substitutability

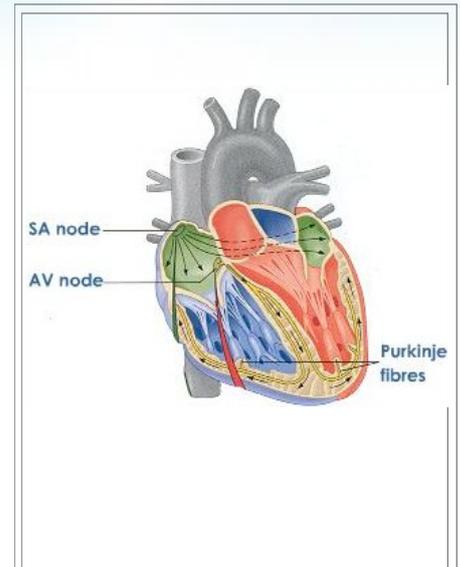
Can sino auricular node exhibit substitutability? Yes. Sino auricular node has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for sino auricular node?

7. Satisfiability

Can sino auricular node exhibit satisfiability? Yes. Sino auricular node has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by sino auricular node?



Hai! You know well about sino auricular node, but do you have the knowledge to answer the questions about sino auricular node?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Tricuspid valve

What properties of tricuspid valve allow us to study it systematically?

Listed below are the properties of tricuspid valve which allow us to study it systematically.

1. Divisibility

Can tricuspid valve exhibit divisibility? Yes. Tricuspid valve has divisibility and it can be divided into things called the parts of tricuspid valve.

- What are the parts of tricuspid valve?

2. Comparability

Can tricuspid valve exhibit comparability? Yes. Tricuspid valve has comparability and it can be compared to all the other things. Anything which cannot be compared to tricuspid valve is neither different nor similar to tricuspid valve.

- What is that which is neither different nor similar to tricuspid valve?

3. Connectivity

Can tricuspid valve exhibit connectivity? Yes. Tricuspid valve has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to tricuspid valve?

4. Disturbability

Can tricuspid valve exhibit disturbability? Yes. Tricuspid valve has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect tricuspid valve?

5. Reorderability

Can tricuspid valve exhibit reorderability? Yes. Tricuspid valve has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of tricuspid valve?

6. Substitutability

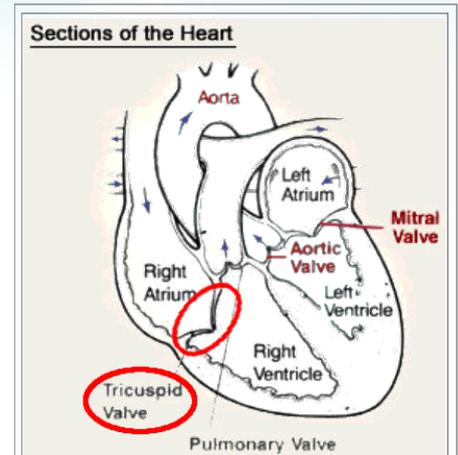
Can tricuspid valve exhibit substitutability? Yes. Tricuspid valve has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for tricuspid valve?

7. Satisfiability

Can tricuspid valve exhibit satisfiability? Yes. Tricuspid valve has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by tricuspid valve?



Hai! You know well about tricuspid valve, but do you have the knowledge to answer the questions about tricuspid valve?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Mitral valve

What properties of mitral valve allow us to study it systematically?

Listed below are the properties of mitral valve which allow us to study it systematically.

1. Divisibility

Can mitral valve exhibit divisibility? Yes. Mitral valve has divisibility and it can be divided into things called the parts of mitral valve.

- What are the parts of mitral valve?

2. Comparability

Can mitral valve exhibit comparability? Yes. Mitral valve has comparability and it can be compared to all the other things. Anything which cannot be compared to mitral valve is neither different nor similar to mitral valve.

- What is that which is neither different nor similar to mitral valve?

3. Connectivity

Can mitral valve exhibit connectivity? Yes. Mitral valve has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot connect to mitral valve?

4. Disturbability

Can mitral valve exhibit disturbability? Yes. Mitral valve has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect mitral valve?

5. Reorderability

Can mitral valve exhibit reorderability? Yes. Mitral valve has reorderability and it can be reordered from one form to its other forms.

- What can be the forms of mitral valve?

6. Substitutability

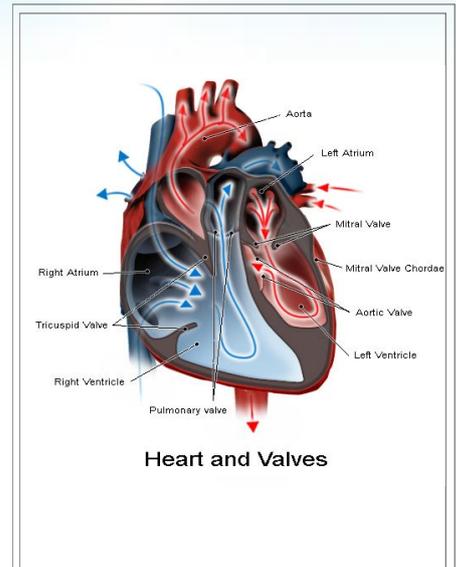
Can mitral valve exhibit substitutability? Yes. Mitral valve has substitutability and it can be substituted by the things which qualify to substitute it.

- What can substitute for mitral valve?

7. Satisfiability

Can mitral valve exhibit satisfiability? Yes. Mitral valve has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by mitral valve?



Hai! You know well about mitral valve, but do you have the knowledge to answer the questions about mitral valve?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?



Anything which one can identify has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability!