

From Molecules to Ecosystems

35+ QUESTIONS

GRADE

11

3. What factor should be considered when designing a local science solution?
- Personalized only
 - Ignoring environmental impacts
 - Time constraints
 - Random guesses

4. What should you do if improving one part of a solution causes problems elsewhere?
- Ignore the new problems
 - Revisit the trade-offs carefully
 - Stick to the original idea
 - Plan the second solution without thinking

5. Which of these is a local problem that science can help solve?
- Waste management in the community
 - Global climate change
 - Universal literacy
 - Plastic waste cleanup

6. How does documenting a solution help in the scientific process?
- Shows the problem was solved
 - Provides evidence from using the idea
 - Helps others understand and build on it
 - Makes unnecessary claims

7. What should be done if a scientific solution is unsafe?
- Modify or abandon it for safety
 - Use it anyway
 - Hide it away
 - Ignore safety and focus on speed

8. Which is an example of a common problem?
- Designing without any tools
 - Unlimited time to finish the project
 - No access to resources
 - Choosing materials that don't last

Source: Adapted from Reading Comprehension: An Open-Source

Name: _____

From Molecules to Ecosystems

Science helps communities solve problems by applying knowledge and innovative thinking. Often, faced with a local issue such as water quality or waste management, using science to create or improve solutions can have a positive impact. Understanding the problem fully, including its causes and effects, is the first step in finding an effective solution.

Designing solutions requires considering various constraints, such as budget, time, and safety concerns. Documenting the part of a solution that works best helps others understand and build on it. It is important to weigh these trade-offs carefully. For example, choosing materials for a water filter that affect its cost and ease of use, which influence the effectiveness of the solution.

After developing a solution, documenting how it works, what constraints affected it, and any compromises made helps others learn and possibly improve on the idea. Communication, sharing findings clearly, and reflecting on the impacts of the innovation are essential steps. This process allows for sharing science locally, encourages responsible decision-making, and helps communities thrive.

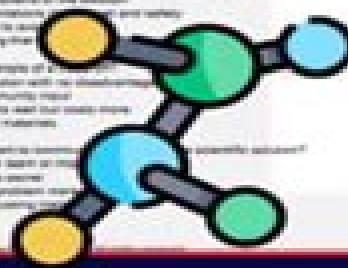
01. Mark the best answer for each question.

1. What is the first important step when applying science to solve a local problem?
- Designing a solution immediately
 - Using the most expensive materials
 - Ignoring safety concerns
 - Understanding the problem fully

2. What does documenting constraints in a solution help with?
- Showing the problem was solved
 - Providing evidence from using the idea
 - Showing how it works
 - Documenting the

3. Which is an example of a common problem?
- Designing without any tools
 - Unlimited time to finish the project
 - No access to resources
 - Choosing materials that don't last

4. Why is it important to document a solution?
- To show others how it works
 - To make others understand and build on it
 - To make the problem worse
 - To make the solution worse



02. Mark if the statement is True (T) or False (F)

1. Trade-offs are compromises made when one benefit is gained but another is lost. When applying science to solve a local problem, understanding the problem fully, including its causes and effects, is the first step before creating a solution. The goal is to create a solution that works best for the community, even if it means making multiple trade-offs. For example, choosing materials for a water filter that affect its cost and ease of use, which influence the effectiveness of the solution.

Answer for each question.

1. Document a problem fully before designing a solution?

2. Why must this be considered in designing a solution?

3. One of the main reasons when creating a water filter

4. How might scientific solutions in communities?

5. How are trade-offs essential in scientific problem-solving?

Source: Adapted from

ANSWER KEY

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web 5 masalah nilai awal syarat batas mnasb bila state u tidak hanya bergantung pada variabel lokasi spasial tetapi juga waktu time yaitu $u(x,t) \in \Omega$ dan $t \in [0,T]$ maka diperoleh masalah nilai awal dan syarat batas contoh persamaan gelombang dimensi dua $\frac{\partial^2 u}{\partial t^2} = c^2 \nabla^2 u$ $u(x,y,0) = f(x,y)$ $\frac{\partial u}{\partial t}(x,y,0) = g(x,y)$ $u(x,y,T) = h(x,y)$

web dengan syarat batas dan syarat awal $u(0, t) = t^2$ untuk $0 \leq x \leq 1$ dan $0 \leq t \leq 1$ dengan notasi sebagai berikut

u menyatakan suhu dalam fluida di antara dinding $x=0$ yang bersuhu α dan batas $x=1$ yang tidak diketahui dan bergerak sebagai batas antara fluida dan es

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web persamaan diferensial 1 bersama sama dengan syarat awal 2 disebut suatu masalah nilai awal mna kita ingin mencari suatu penyelesaian $y(x)$ dari persamaan diferensial 1 yang memenuhi syarat pada titik akhir dari selang $a \leq x \leq b$ sebagai contoh $y'(x) = 2x$ dan dengan $y(0) = 0$ dan $y(1) = 1$ dan $y(2) = 4$ dan $y(3) = 9$ dan $y(4) = 16$ dan $y(5) = 25$ dan $y(6) = 36$ dan $y(7) = 49$ dan $y(8) = 64$ dan $y(9) = 81$ dan $y(10) = 100$ dan $y(11) = 121$ dan $y(12) = 144$ dan $y(13) = 169$ dan $y(14) = 196$ dan $y(15) = 225$ dan $y(16) = 256$ dan $y(17) = 289$ dan $y(18) = 324$ dan $y(19) = 361$ dan $y(20) = 400$ dan $y(21) = 441$ dan $y(22) = 484$ dan $y(23) = 529$ dan $y(24) = 576$ dan $y(25) = 625$ dan $y(26) = 676$ dan $y(27) = 729$ dan $y(28) = 784$ dan $y(29) = 841$ dan $y(30) = 900$ dan $y(31) = 961$ dan $y(32) = 1024$ dan $y(33) = 1089$ dan $y(34) = 1156$ dan $y(35) = 1225$ dan $y(36) = 1296$ dan $y(37) = 1369$ dan $y(38) = 1444$ dan $y(39) = 1521$ dan $y(40) = 1600$ dan $y(41) = 1681$ dan $y(42) = 1764$ dan $y(43) = 1849$ dan $y(44) = 1936$ dan $y(45) = 2025$ dan $y(46) = 2116$ dan $y(47) = 2209$ dan $y(48) = 2304$ dan $y(49) = 2401$ dan $y(50) = 2500$ dan $y(51) = 2601$ dan $y(52) = 2704$ dan $y(53) = 2809$ dan $y(54) = 2916$ dan $y(55) = 3025$ dan $y(56) = 3136$ dan $y(57) = 3249$ dan $y(58) = 3364$ dan $y(59) = 3481$ dan $y(60) = 3600$ dan $y(61) = 3721$ dan $y(62) = 3844$ dan $y(63) = 3969$ dan $y(64) = 4096$ dan $y(65) = 4225$ dan $y(66) = 4356$ dan $y(67) = 4489$ dan $y(68) = 4624$ dan $y(69) = 4761$ dan $y(70) = 4900$ dan $y(71) = 5041$ dan $y(72) = 5184$ dan $y(73) = 5329$ dan $y(74) = 5476$ dan $y(75) = 5625$ dan $y(76) = 5776$ dan $y(77) = 5929$ dan $y(78) = 6084$ dan $y(79) = 6241$ dan $y(80) = 6400$ dan $y(81) = 6561$ dan $y(82) = 6724$ dan $y(83) = 6889$ dan $y(84) = 7056$ dan $y(85) = 7225$ dan $y(86) = 7396$ dan $y(87) = 7569$ dan $y(88) = 7744$ dan $y(89) = 7921$ dan $y(90) = 8100$ dan $y(91) = 8281$ dan $y(92) = 8464$ dan $y(93) = 8649$ dan $y(94) = 8836$ dan $y(95) = 9025$ dan $y(96) = 9216$ dan $y(97) = 9409$ dan $y(98) = 9604$ dan $y(99) = 9801$ dan $y(100) = 10000$ dan $y(101) = 10201$ dan $y(102) = 10404$ dan $y(103) = 10609$ dan $y(104) = 10816$ dan $y(105) = 11025$ dan $y(106) = 11236$ dan $y(107) = 11449$ dan $y(108) = 11664$ dan $y(109) = 11881$ dan $y(110) = 12100$ dan $y(111) = 12321$ dan $y(112) = 12544$ dan $y(113) = 12769$ dan $y(114) = 12996$ dan $y(115) = 13225$ dan $y(116) = 13456$ dan $y(117) = 13689$ dan $y(118) = 13924$ dan $y(119) = 14161$ dan $y(120) = 14400$ dan $y(121) = 14641$ dan $y(122) = 14884$ dan $y(123) = 15129$ dan $y(124) = 15376$ dan $y(125) = 15625$ dan $y(126) = 15876$ dan $y(127) = 16129$ dan $y(128) = 16384$ dan $y(129) = 16641$ dan $y(130) = 16900$ dan $y(131) = 17161$ dan $y(132) = 17424$ dan $y(133) = 17689$ dan $y(134) = 17956$ dan $y(135) = 18225$ dan $y(136) = 18496$ dan $y(137) = 18769$ dan $y(138) = 19044$ dan $y(139) = 19321$ dan $y(140) = 19600$ dan $y(141) = 19881$ dan $y(142) = 20164$ dan $y(143) = 20449$ dan $y(144) = 20736$ dan $y(145) = 21025$ dan $y(146) = 21316$ dan $y(147) = 21609$ dan $y(148) = 21904$ dan $y(149) = 22201$ dan $y(150) = 22500$ dan $y(151) = 22801$ dan $y(152) = 23104$ dan $y(153) = 23409$ dan $y(154) = 23716$ dan $y(155) = 24025$ dan $y(156) = 24336$ dan $y(157) = 24649$ dan $y(158) = 24964$ dan $y(159) = 25281$ dan $y(160) = 25600$ dan $y(161) = 25921$ dan $y(162) = 26244$ dan $y(163) = 26569$ dan $y(164) = 26896$ dan $y(165) = 27225$ dan $y(166) = 27556$ dan $y(167) = 27889$ dan $y(168) = 28224$ dan $y(169) = 28561$ dan $y(170) = 28900$ dan $y(171) = 29241$ dan $y(172) = 29584$ dan $y(173) = 29929$ dan $y(174) = 30276$ dan $y(175) = 30625$ dan $y(176) = 30976$ dan $y(177) = 31329$ dan $y(178) = 31684$ dan $y(179) = 32041$ dan $y(180) = 32400$ dan $y(181) = 32761$ dan $y(182) = 33124$ dan $y(183) = 33489$ dan $y(184) = 33856$ dan $y(185) = 34225$ dan $y(186) = 34596$ dan $y(187) = 34969$ dan $y(188) = 35344$ dan $y(189) = 35721$ dan $y(190) = 36100$ dan $y(191) = 36481$ dan $y(192) = 36864$ dan $y(193) = 37249$ dan $y(194) = 37636$ dan $y(195) = 38025$ dan $y(196) = 38416$ dan $y(197) = 38809$ dan $y(198) = 39204$ dan $y(199) = 39601$ dan $y(200) = 40000$ dan $y(201) = 40401$ dan $y(202) = 40804$ dan $y(203) = 41209$ dan $y(204) = 41616$ dan $y(205) = 42025$ dan $y(206) = 42436$ dan $y(207) = 42849$ dan $y(208) = 43264$ dan $y(209) = 43681$ dan $y(210) = 44100$ dan $y(211) = 44521$ dan $y(212) = 44944$ dan $y(213) = 45369$ dan $y(214) = 45796$ dan $y(215) = 46225$ dan $y(216) = 46656$ dan $y(217) = 47089$ dan $y(218) = 47524$ dan $y(219) = 47961$ dan $y(220) = 48400$ dan $y(221) = 48841$ dan $y(222) = 49284$ dan $y(223) = 49729$ dan $y(224) = 50176</$

web persamaan diferensial adalah persamaan yang melibatkan variabel variabel tak bebas dan derivatif derivatifnya terhadap variabel variabel bebas berikut ini adalah contoh persamaan diferensial

4	3	2	1	6	0	3	10	4	0
var bebas x	var bebas x	var bebas t	var bebas x	y	var takbebas y				

web isi buku fisika kuantum ini mencakup keterbatasan mekanika klasik fenomena kuantum persamaan schrodinger aljabar operator dan prinsip simetris bola secara khusus buku ini diperuntukkan bagi mahasiswa jurusan fisika dan atau jurusan pendidikan fisika semester v dan sedang mengambil mata kuliah fisika kuantum

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