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# **Organism Growth and Cell Differentiation**

**B.5 Science concepts.** The student knows how an organism grows and the importance of cell differentiation.

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| IQ Analysis | Investigating the Question | B.5(A) | RC 1 |
| Units |  |  |
| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | Analysis of Assessed Standards |
| 2018 – Q19 | Cluster | Organism Growth and Cell Differentiation |
| Subcluster | Cell Cycle |
| Content | Readiness |
| Process |  |
| Stimulus |   |
|   |
| Data Analysis |
| Item | State | Local | Error Analysis▢ Guessing▢ Careless Error▢ Stopped Too Early▢ Mixed Up Concepts |
| A |  |   |
| B |  |   |
| C |  |   |
| D |  |   |
|   |
| Learning from Mistakes Instructional Implications |
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| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | Analysis of Assessed Standards |
| 2018 – Q46 | Cluster | Organism Growth and Cell Differentiation |
| Subcluster | Cell Cycle |
| Content | Readiness |
| Process | B.2(G) |
| Stimulus |   |
|   |
| Data Analysis |
| Item | State | Local | Error Analysis▢ Guessing |
|  |  |  |
|  | F |  |   | ▢ Careless Error▢ Stopped Too Early▢ Mixed Up Concepts |
| G |  |   |
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| Learning from Mistakes Instructional Implications |
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| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | Analysis of Assessed Standards |
| 2017 – Q7 | Cluster | Organism Growth and Cell Differentiation |
| Subcluster | Cell Cycle |
| Content | Readiness |
| Process | B.2(G) |
| Stimulus |   |
|   |
| Data Analysis |
| Item | State | Local | Error Analysis▢ Guessing |
|  |  |  |
|  | A |  |   | ▢ Careless Error▢ Stopped Too Early▢ Mixed Up Concepts |
| B |  |   |
|  |  |  |
|  | C |  |   |  |
| D |  |   |
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| Learning from Mistakes Instructional Implications |
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| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | Analysis of Assessed Standards |
| 2017 – Q33 | Cluster | Organism Growth and Cell Differentiation |
| Subcluster | Cell Cycle |
| Content | Readiness |
| Process |  |
| Stimulus |   |
|   |
| Data Analysis |
| Item | State | Local | Error Analysis▢ Guessing▢ Careless Error▢ Stopped Too Early▢ Mixed Up Concepts |
| A |  |   |
| B |  |   |
| C |  |   |
| D |  |   |
|   |
| Learning from Mistakes Instructional Implications |
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