**e-RPH BIOLOGY FORM 5**

|  |
| --- |
| **DAILY LESSON PLAN** |
| **CLASS** |  | **WEEK** |  |
| **THEME** | Physiology of Flowering Plants | **DATE** |  |
| **CHAPTER** | 1.0 Organisation of Plant Tissues and Growth | **DAY** |  |
| **TITLE** | Organisation of Plant Tissues | **TIME** |  |
| **LEARNING OBJECTIVE** |
| At the end of PdPc, pupils can:1. Communicate about the two types of plant tissue and their main functions
 |
| **TEACHING AND LEARNING ACTIVITIES** |
| **Introduction:**1. Pupils and teachers answer questions to test the level of existing knowledge of pupils.
2. Pupils pay attention to the teacher's explanation about the types of plant tissue.
 |
| **Activities:**1. Pupils carry out the Travelling File activity (PAK21).
2. Pupils are divided into several groups.
3. Each group is given time to answer 1 question placed in 1 file within a set time.
4. There are 5 *travelling files* provided. Each group discusses to answer the questions in the group.
5. The answer to each question will be discussed with the teacher before the end of the PdPc session.
 |
| **Closing:**Pupils answer questions 1 - 2 in the Target PBD Biologi Form 5 book on page 1 and 2. |
| **REFLECTION** |
| \_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can achieve the set learning objectives.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can complete the exercises given.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils need further training and teacher guidance.Note: Teaching and learning cannot be carried out today and will continue in the next learning session because:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |
| --- |
| **DAILY LESSON PLAN** |
| **CLASS** |  | **WEEK** |  |
| **THEME** | Physiology of Flowering Plants | **DATE** |  |
| **CHAPTER** | 1.0 Organisation of Plant Tissues and Growth | **DAY** |  |
| **TITLE** | Meristematic Tissues and Growth | **TIME** |  |
| **LEARNING OBJECTIVE** |
| At the end of PdPc, pupils can:1. Identify two types of tissue and the parts of tissue involved in growth
2. Describe the location of the zone of cell division , the zone of cell elongation and the zone of cell differentiation in shoots and roots.
3. Identify three zones of cell growth which are the zone of cell division, the zone of cell elongation and the zone of cell differentiation in the seed radicle .
 |
| **TEACHING AND LEARNING ACTIVITIES** |
| **Introduction:**1. Pupils listen to the teacher's explanation about the three growth zones.
2. Pupils and teachers answer questions to test the level of existing knowledge of pupils.
 |
| **Activities:**1. Pupils are divided into several groups and carry out *Gallery Walk activities*.
2. Each group is required to answer the questions provided.
3. Pupils walk to each group to see the answers from the other groups anddiscuss.
4. Pupils can leave short notes or comments on other groups' work.
 |
| **Closing:**Pupils answer questions 1 - 3 in the Target PBD Biologi Tingkatan 5 book pages 3-6. |
| **REFLECTION** |
| \_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can achieve the set learning objectives.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can complete the exercises given.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils need further training and teacher guidance.Note: Teaching and learning cannot be carried out today and will continue in the next learning session because:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |
| --- |
| **DAILY LESSON PLAN** |
| **CLASS** |  | **WEEK** |  |
| **THEME** | Physiology of Flowering Plants | **DATE** |  |
| **CHAPTER** | 1.0 Organisation of Plant Tissues and Growth | **DAY** |  |
| **TITLE** | Meristematic Tissues and Growth | **TIME** |  |
| **LEARNING OBJECTIVE** |
| At the end of PdPc, pupils can:1. Describe the types of growth which are primary growth and secondary growth
2. Justify the four importance of primary growth and secondary growth.
3. Compare and contrast primary growth with secondary growth in eudicot plants.
4. State three economic importance of plants that undergo secondary growth.
 |
| **TEACHING AND LEARNING ACTIVITIES** |
| **Introduction:**1. Pupils listen to the teacher's explanation about primary growth and secondary growth.
2. Pupils and teachers answer questions to test the level of existing knowledge of pupils.
 |
| **Activities:**1. Pupils find information about primary growth and secondary growth.
2. Pupils complete the i-Think double bubble map to find a comparison between primary growth and secondary growth.
3. Pupils move in their respective groups to gather information about the importance of primary growth and secondary growth.
4. Pupils produce short videos or Tik-Tok to convey messages and information about the findings.
5. Video or Tik-Tok presentations are conducted in class.
6. A question and answer session is conducted in the classroom.
 |
| **Closing:**Pupils answer questions 4 - 7 in the Targeti PBD Biologi Tingkatan 5 book pages 6-8. |
| **REFLECTION** |
| \_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can achieve the set learning objectives.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can complete the exercises given.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils need further training and teacher guidance.Note: Teaching and learning cannot be carried out today and will continue in the next learning session because:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |
| --- |
| **DAILY LESSON PLAN** |
| **CLASS** |  | **WEEK** |  |
| **THEME** | Physiology of Flowering Plants | **DATE** |  |
| **CHAPTER** | 1.0 Organisation of Plant Tissues and Growth | **DAY** |  |
| **TITLE** | Growth Curve | **TIME** |  |
| **LEARNING OBJECTIVE** |
| At the end of PdPc, pupils can:1. Describe three types of plants based on their life cycle.
2. Simplify the three growth curve of :
3. Annual plants
4. Biennial plant
5. Perennial plants
6. Describes experiments to study growth curves in plants.
 |
| **TEACHING AND LEARNING ACTIVITIES** |
| **Introduction:**1. Pupils listen to the teacher's explanation about the growth curve.
2. Pupils and teachers answer questions to test the level of pupils' existing knowledge.
 |
| **Activities:**1. Pupils were given an assignment a week earlier to find and gather information about plant types based on their life cycle and growth curve.
2. Pupils find materials and prepare folios related to plant types and examples.
3. After a week, pupils display their folios and other pupils also look at their friends' folios.
4. Communication between pupils and between teachers and pupils is encouraged.
 |
| **Closing:**Pupils answer questions 1 - 3 in the Target PBD Biologi Tingkatan 5 book pages 9-12. |
| **REFLECTION** |
| \_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can achieve the set learning objectives.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils can complete the exercises given.\_\_\_\_\_\_ / \_\_\_\_\_\_ pupils need further training and teacher guidance.Note: Teaching and learning cannot be carried out today and will continue in the next learning session because:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |