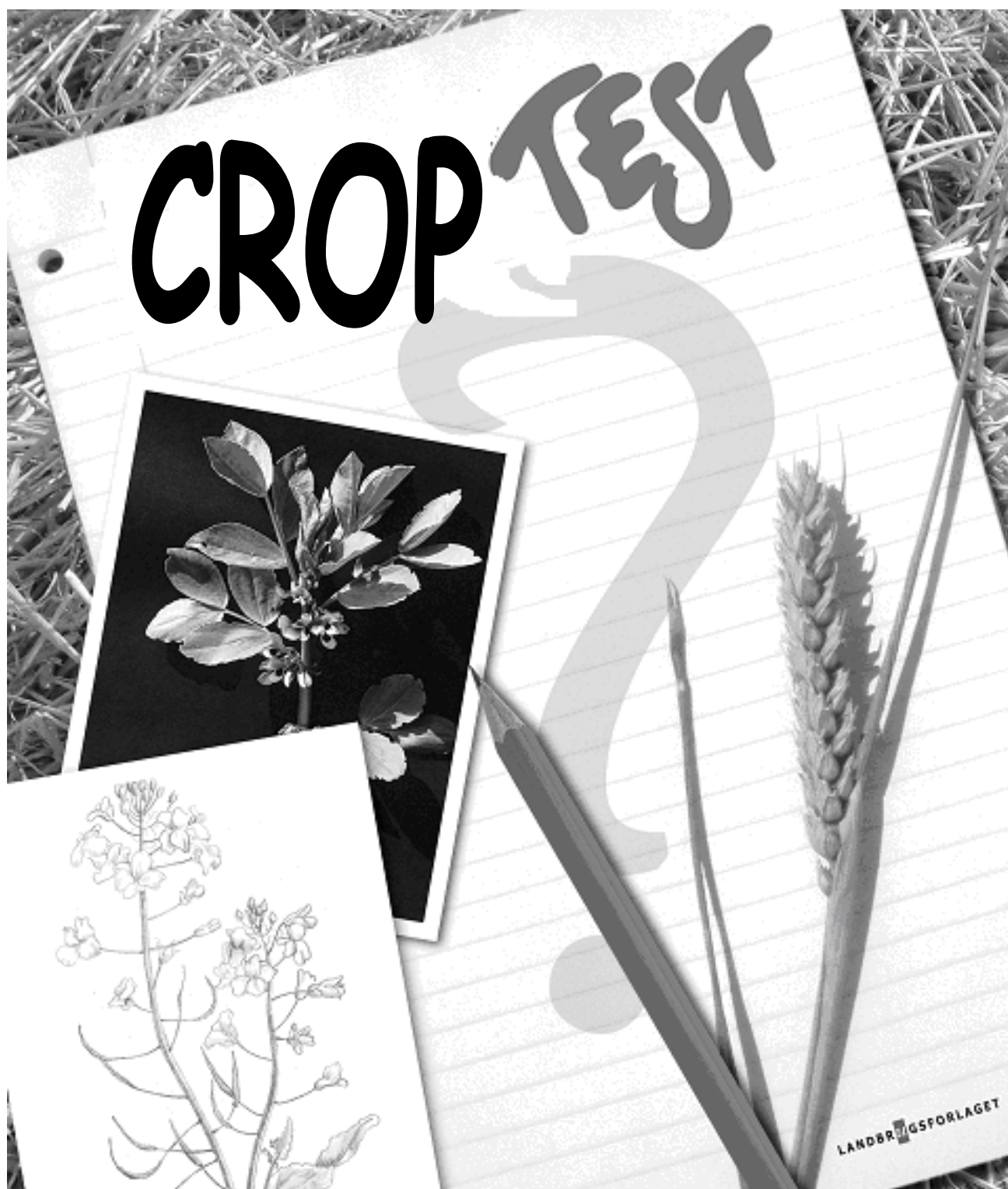


# WORK SHEETS CROP TEST



Anne Eriksen May 2006

**NAME** \_\_\_\_\_

# WORK SHEETS FOR CROP TEST

This is your personal booklet with work sheets for training to CROP TEST. You fill them out when using the training books A, B, C, D, E and F. You must not write in the books, only in the work sheets. In the list below you can put a mark when you have finished a work sheet.

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Mark X!	WORK SHEETS for training books	Page
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# Crop test training book A

Under the subjects: Seed, young plant, older plant and flower/fruit you write the name of the crop on the line.

## Seed

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## Young plant

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

## Older plant

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

## Flower/seed production

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

**Common knowledge about plants**

Page 1

Sketch of \_\_\_\_\_

Write the correct name for the part of the plant on the line

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_

Page 2

Sketch of \_\_\_\_\_

Write the correct name for the part of the plant on the line

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_
- g. \_\_\_\_\_
- h. \_\_\_\_\_
- i. \_\_\_\_\_

Page 3

Growth scale for: \_\_\_\_\_

Write the correct stage of development/growth on the line

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

**10 quick questions**

1. Name 3 examples of plants with 2 seedling leaves (di-cotyledons)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

2. Name 2 crops that belong to the pea family

- \_\_\_\_\_
- \_\_\_\_\_

3. How many m<sup>2</sup> is 1 ha? \_\_\_\_\_

4. What does thousand grain weight (TGW) mean? \_\_\_\_\_

5. What is slurry?

\_\_\_\_\_

6. Why do you swath a crop?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. What is a "good crop rotation"?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. You have a plant

- The fruit is a capsule with many seed.
- The juice (plant sap) is milky
- The seed are small and used on top of wheat bread

Which plant might it be? \_\_\_\_\_

9. What is the weight of 1000 grains of wheat?

- 80 g
- 20 g
- 45 g

10. Knowledge about winter sown oilseed rape:

What is the crop used for?

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How big is the area (approximately) in Denmark:

200.000 ha

30.000 ha

80.000 ha

The name of the fruit is:

pod

capsule/silique

When do you harvest the crop? \_\_\_\_\_

When do you sow the crop? \_\_\_\_\_

How deep will you sow the seed?

2 cm

8 cm

5 cm

How many hkg of the crop will you harvest per ha?

70 hkg

15 hkg

30 hkg

**What can you tell?**

*Tell all you know about the crop (or the activity) you see on the photo, what it is used for, how you grow it and so on.*

*What can you tell? Page 1:*

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*What can you tell? Page 2:*

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# **Crop test training book B**

*Under the subjects seed, young plant, older plant and flower/fruit you write the name of the crop on the line.*

## **Seed**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## **Young plant**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

## **Older plant**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

## **Flower/seed production**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_



**Common knowledge about plants**

Page 1

Sketch of \_\_\_\_\_

Write the correct name of the part of the plant on the line

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_

Page 2

Sketch of \_\_\_\_\_

Write the correct name of the part of the plant on the line

- a. \_\_\_\_\_ Colour: \_\_\_\_\_
- b. \_\_\_\_\_ Colour: \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_

Page 3

Growth scale for: \_\_\_\_\_

Write the correct stage of development/growth on the line

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

**10 quick questions**

1. Mention 3 examples of plants with 1 seedling leaf (monocotyledon):

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

2. Mention 2 weeds belonging to the daisy-family

- \_\_\_\_\_
- \_\_\_\_\_

3. How many acres are 100 ha? \_\_\_\_\_

4. What do you use the TGW (thousand grain weight) for?

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5. What is slurry? \_\_\_\_\_

6. Mention 2 crops that are often swathed:

- \_\_\_\_\_
- \_\_\_\_\_

7. A bad crop rotation – what does that mean?

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8. You have a plant:

- The flower has 4 petals forming a cross.
- It has a taproot.
- The oil from the seed is used for cooking and for fuel.
- Which plant could it be? \_\_\_\_\_

9. *The thousand grain weight for field peas is approximately:*  
250 gram  
400 gram  
100 gram

10. *Knowledge about field peas*

*What is the crop used for?* \_\_\_\_\_

*Area in Denmark:*

- 5.000 ha
- 100.000 ha
- 20.000 ha

*The fruit is a:*

- Silique
- Pod

*When do you harvest the crop?* \_\_\_\_\_

*When do you sow the crop?* \_\_\_\_\_

*How deep will you sow the seed:*

- 2 cm
- 6 cm
- 20 cm

*What is the yield per ha:*

- 45 hkg
- 70 hkg
- 25 hkg



# Crop test training book C

Under the subjects: Seed, young plant, older plant and flower/fruit you write the name of the crop at the line.

## Seed

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## Young plant

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

## Older plant

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_

## Flower/fruit

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

**Common knowledge about plants**

Page 1, sketch of \_\_\_\_\_

Write the correct name of the plant part or stage of development:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

Page 2, sketch of \_\_\_\_\_

Write the correct name of the plant part or stage of development:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_
- g. \_\_\_\_\_

Page 3

Growth scale for \_\_\_\_\_

Write the correct stage of development

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

**10 quick questions**

1. Give 3 examples of annual crops:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

2. Which plant family do barley and wheat belong to?

\_\_\_\_\_

3. How many kilos is 1 hkg? \_\_\_\_\_

4. What are the benefits of making spray tracks in the field?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What is FYM - farmyard manure? (composition)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. What is whole crop silage?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. What does it mean that a crop is sown in rows?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. You have a plant:

- The flowers are white or blue, and the fruit is a capsule.
- Oil pressed from the seed can be used for dye and enamel (Danish: lak)
- The stem contains long fibres that can be woven to cloth.

Which crop might it be? \_\_\_\_\_

9. The thousand grain weight of Timothy is app.:

- 5 g
- 2 g
- 0,4 g

10. Knowledge about winter wheat

What is winter wheat used for?

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Area in Danmark:

- 200.00 ha
- 600.000 ha
- 100.000 ha

The "head" is called:

- Cluster
- Tassel
- Ear

When is it harvested? \_\_\_\_\_

When is it sown? \_\_\_\_\_

How deep must the seed be sown:

- 2 cm
- 8 cm
- 5 cm

What is the normal yield per ha:

- 120 hkg
- 45 hkg
- 80 hkg





# Crop test training book D

Under the subjects: Seed, young plant, older plant and flower/fruit you write the name of the crop at the line.

## Seed

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## Young plant

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

## Older plant

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## Flower/fruit

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

## **Common knowledge about plants**

Page 1, sketch of \_\_\_\_\_

Write the correct name of the plant part:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

Page 2, sketch off \_\_\_\_\_

Write the correct name of the plant part:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_
- g. \_\_\_\_\_

Page 3

Growth scale for \_\_\_\_\_

Write the correct stage of development:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

## 10 quick questions

1. Give 3 examples of perennial plants:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

2. Which plant family does maize and cocks foot belong to? \_\_\_\_\_

3. How many ha are 20.000 m<sup>2</sup>? \_\_\_\_\_

4. Mention a crop where the fruit is a silique: \_\_\_\_\_

5. What is deep litter?

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6. Give 2 examples of crops that can be used for whole crop silage:

- \_\_\_\_\_
- \_\_\_\_\_

7. What is a "broad sown" crop?

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8. You have a crop

- The root is fibrous and the stem is hollow and with knees
- The fruit is an ear with 2 or 6 rows of grain.
- The seed can be used for fodder or for brewing beer.

Which crop can it be? \_\_\_\_\_

9. The sowing depth for rye is app.:

- 0-1,0 cm
- 1,0-1,5 cm
- 3,0-4,0 cm

10. Knowledge about maize:

What is the crop used for?

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Area in Denmark:

200.00 ha

50.000 ha

95.000 ha

Maize belongs to the:

Cabbage family

Fodder family

Grass family

When is silage maize harvested? \_\_\_\_\_

When is it sown? \_\_\_\_\_

How deep must the seed be sown:

2 cm

10 cm

5 cm

What is the normal yield per ha:

4.000 FU

9.000 FU

15.000 FU



# Crop test training book E

Under the subjects: Seed, young plant, older plant and flower/fruit you write the name of the crop at the line.

Name a seed:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

Young plant:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

Older plant:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

Flower/fruit:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

## **Common knowledge about plants**

Page 1, sketch of \_\_\_\_\_

Write the correct name of the plant part:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

Page 2, sketch of \_\_\_\_\_

Write the correct name of the plant part:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_
- g. \_\_\_\_\_

Page 3

Growth scale for \_\_\_\_\_

Write the correct stage of development:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_



**10 quick questions**

1. Mention 2 plants that belong to the cabbage family:

- \_\_\_\_\_
- \_\_\_\_\_

2. Which family does couch grass and rye grass belong to? \_\_\_\_\_

3. Four acres is about \_\_\_\_\_ ha

4. Mention a crop where the fruit is a pod: \_\_\_\_\_

5. What do the numbers 21-3-10 on a bag of fertilizer mean?

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6. What is green crop silage?

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7. Which of these crops are normally sown in rows?

- Maize
- Peas
- Oats
- Sugar beet
- Winter wheat

8. You have a crop:

- The fruit is a berry and contains poisonous substances.
- The plant is in the same family as tomato.
- The tubers is used for eating, flour and in the old days for making schnapps..

Which crop can it be? \_\_\_\_\_

9. The sowing depth for a grass lay with clover should be:

1,0 cm

0,5 cm

0,3 cm

10. Knowledge about sugar beet

What are sugar beets used for? \_\_\_\_\_

Area in Denmark:

20.000 ha

10.000 ha

70.000 ha

Sugar beets belong to:

Cabbage family

Goose foot family

Grass family

When do you harvest sugar beet? \_\_\_\_\_

When do you sow sugar beet? \_\_\_\_\_

How deep will you sow the seed:

1 cm

6 cm

2,5 cm

What is the yield per ha. ? (two marks)

5.000 FU

13.000 FU

5 tonnes of sugar

11 tonnes of sugar



# Crop test training book F

Under the subjects: Seed, young plant, older plant and flower/fruit you write the name of the crop at the line.

Name a seed:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Young plant:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

Older plant:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

Flower/fruit:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**Common knowledge about plants**

Page 1, sketch of \_\_\_\_\_

Write the correct name of the plant part:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_

Page 2, sketch of \_\_\_\_\_

Write the correct name of the plant part:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_

Page 3

Growth scale for \_\_\_\_\_

Write the correct stage of development:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

**10 quick questions**

1. Mention 2 weeds that belong to the cabbage family:

- \_\_\_\_\_
- \_\_\_\_\_

2. Which plant family does peas and clover belong to? \_\_\_\_\_

3. How many hkg are 100 kg? \_\_\_\_\_

4. Explain the difference between a silique and a pod:

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5. What do the numbers 0-4-21 on a bag of fertilizer mean?

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6. Mention a crop that can be used for green crop silage:

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7. Which of these crops would normally be broad sown?

- Barley
- Maize
- Rye
- Potatoes

8. You have a plant:

- The roots have small nodules with nitrogen fixing bacteria.
- The flowers are white and the seed are very small (TGW 0,7 gram).
- It is often sown in mixture with grasses and used for feeding cattle.

Which plant might it be? \_\_\_\_\_

9. The sowing depth for maize is:

1-2 cm

2-3 cm

4-5 cm

10. Knowledge about potatoes:

What are potatoes used for?

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Area in Denmark:

2.000 ha

40-50.000 ha

400.000 ha

Potatoes belong to the:

Night shade family

Daisy family

Cabbage family

When do you plant potatoes? \_\_\_\_\_

Why are potatoes hoed /earthed? \_\_\_\_\_

How deep under flat soil surface will you put the potatoes?

1-2 cm

10 cm

16 cm

How big is the yield per ha:

10 hkg

400 hkg

1200 hkg





## **How to use training books and work sheets for**

### **CROP TEST**

*CROP TEST is an educational material which offers you the possibility to acquire solid knowledge about the most common agricultural crops in Denmark.*

*That goes for identification as well as the overall view on how to grow the crops.*

*The material is intended to be used very much as "learning by doing" training. The "active knowledge" you acquire about seed and crop identification and other matters will make you more fit to get full value out of your field practise on a farm when you leave the school.*

*As the title indicates you are supposed to take a test when you have finished the training. The test will be performed without any books or notes as the idea is, that you must know the things by heart.*

*To help you to achieve this goal there are 6 different training books (book A, B, C, D, E and F) and an individual booklet with work sheets to fill out. Each book will take about 20 minutes to fill out in the booklet.*

### **The final CROP TEST**

*In the final CROP TEST groups of 5 students will go to the class room one by one. There will be 5 tables with different subjects or questions, and you will get a sheet where you can write down the answers.*

*The subjects/questions on the tables are:*

- *Table 1: Seed identification*
- *Table 2: Crop identification*
- *Table 3: Common knowledge about plants*
- *Table 4: Five quick questions*
- *Table 5: What can you tell?*

*You have 3 minutes at each table. The teacher will tell you when to move to the next table. For each student the test will last about 15 minutes.*

*It you have worked your way through all six training books you will not meet any new crops, but the photos might be new.*

*Bring only pencil and rubber gum! Remember: Don't rub out an answer, if you don't have anything else to write!*

*You will have a certificate with your score if you pas the test. You must have more than 50% score to pas.*