



**ST380/30 Part I**  
**Digital Photography**  
**Student Workbook**

Issue: US380/30/2a-IQ-0101A

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SCANTEK 2000 - A division of LJ Technical Systems.

Written by: LJ Technical Dept

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## Assignment 1 *The Digital Camera - Working with a Camera*

*The filename(s) of the picture(s) taken in assignment 1 are:*

- ① .....
- ② .....
- ③ .....
- ④ .....
- ⑤ .....
- ⑥ .....

## Assignment 2 *Comparing Conventional and Digital Cameras*

*Differences between conventional and digital cameras are:*

.....  
.....  
.....

*My conclusions about the use of conventional and digital cameras:*

.....  
.....  
.....  
.....

## Assignment 3 *The Technological History of the Camera*

Create your own timeline in the box below:

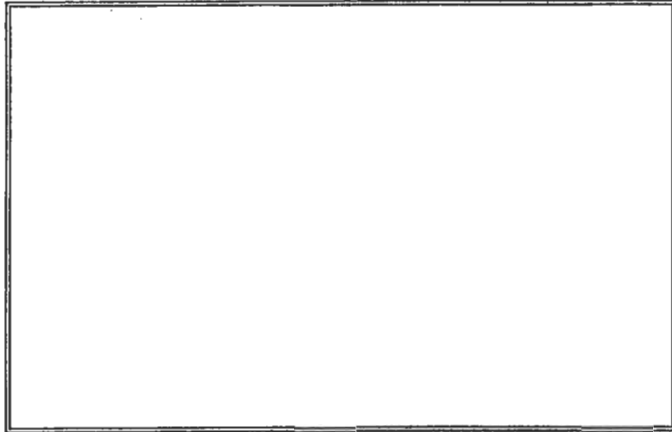
## Assignment 5 *Taking a Picture in Close-Up*

List six systems of close-up and macrography:

- ① .....
- ② .....
- ③ .....
- ④ .....
- ⑤ .....
- ⑥ .....

## Assignment 9 *Color and Light*

Sketch out your photographic scene showing all the light sources that will affect the picture:



- ① .....
- ② .....
- ③ .....
- ④ .....
- ⑤ .....

## Assignment 11 *In the Dark*

Define each of the following terms:

- Print trimmer** .....
- .....
- Tacking Iron** .....
- .....
- Light Box & Magnifier** .....
- .....
- Print Drum** .....
- .....
- Safe Light** .....
- .....
- Tray Warmer** .....
- .....

## Assignment 12 *Sample Exploration - Working with CD ROMs*

*Ideas for my calendar:*

- ① .....
- ② .....
- ③ .....
- ④ .....
- ⑤ .....
- ⑥ .....

## Assignment 13 *Lenses - Working with Camera Lenses*

*Complete the table showing lens information:*

Lens	Focal Length
Standard	
Macro	
Fish-eye	
Perspective Control	
Zoom	
Telephoto	
Catadioptric	

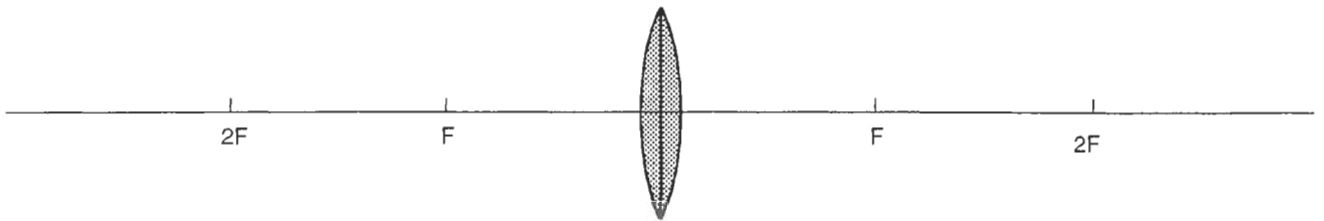
*Where lenses can be found:*

- ① .....
- ② .....
- ③ .....
- ④ .....
- ⑤ .....

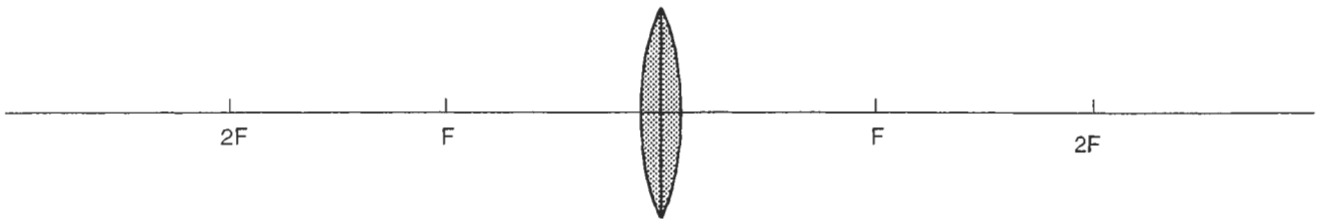
## Assignment 14 *Focal Length*

Complete the sketch for the following situations:

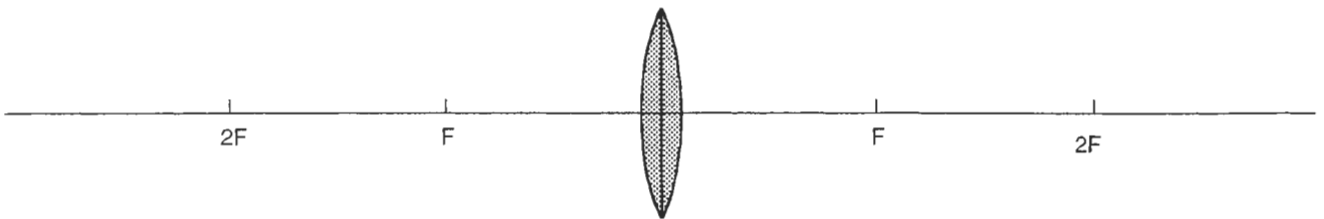
*Situation 1 - A car's main headlight.*

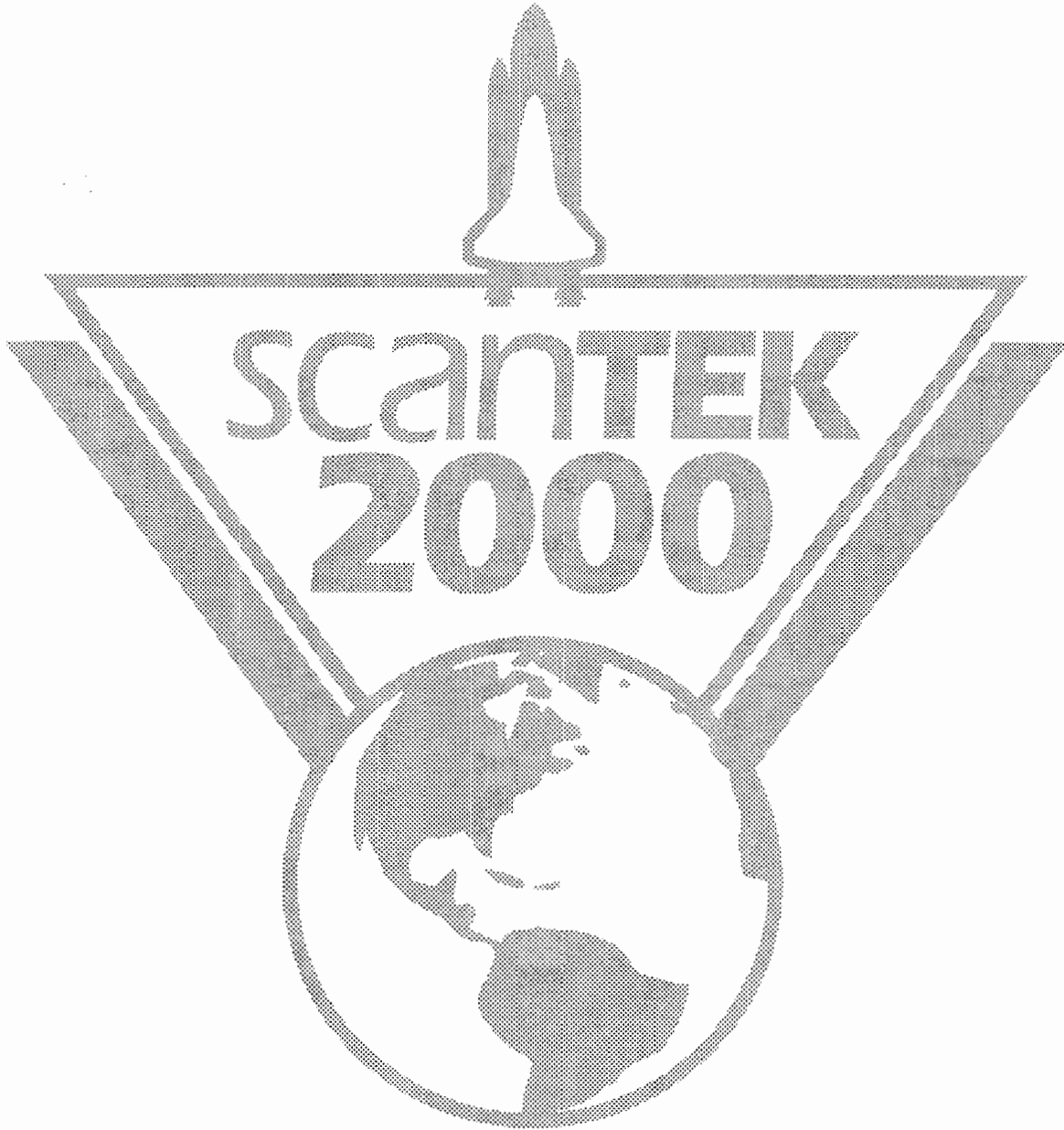


*Situation 2 - A microscope.*



*Situation 3 - A lighthouse.*





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# Assignment 16 *Filters*

Write your summary of the use of filters in photography in the space below:

.....

.....

.....

.....

# Assignment 17 *Filters for Special Effects*

Complete the grid with a filter pattern of your choice:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Symmetry:

Divided by:

Offset:

Invert

Filter description: .....

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Symmetry:

Divided by:

Offset:

Invert

Filter description: .....

# Assignment 20 *Combining Images - Working with Objects*

List advertisements that have used image creating techniques:

- ① .....
- ② .....
- ③ .....
- ④ .....
- ⑤ .....

## Assignment 21 *Touching up an Image - Working with Painting Tools*

Alternative Solutions in the Problem Solving Cycle:

- ① .....
- ② .....
- ③ .....

## Assignment 23 *Adding Text to an Image - Working with Text*

Complete the table for February 1978:

February 1978						
Mon	Tue	Wed	Thu	Fri	Sat	Sun

Complete the table for each month of the year for the calendar you are going to create:

January						
Mon	Tue	Wed	Thu	Fri	Sat	Sun

February						
Mon	Tue	Wed	Thu	Fri	Sat	Sun

**March**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**April**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**May**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**June**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**July**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**August**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**September**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**October**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**November**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

**December**

Mon	Tue	Wed	Thu	Fri	Sat	Sun

## Assignment 27 *Advanced Special Effects*

Steps required to create a digital version of effect number \_\_\_\_\_ :

- ① .....
- ② .....
- ③ .....
- ④ .....

Steps required to create a digital version of effect number \_\_\_\_\_ :

- ① .....
- ② .....
- ③ .....
- ④ .....

Steps required to create a digital version of effect number \_\_\_\_\_ :

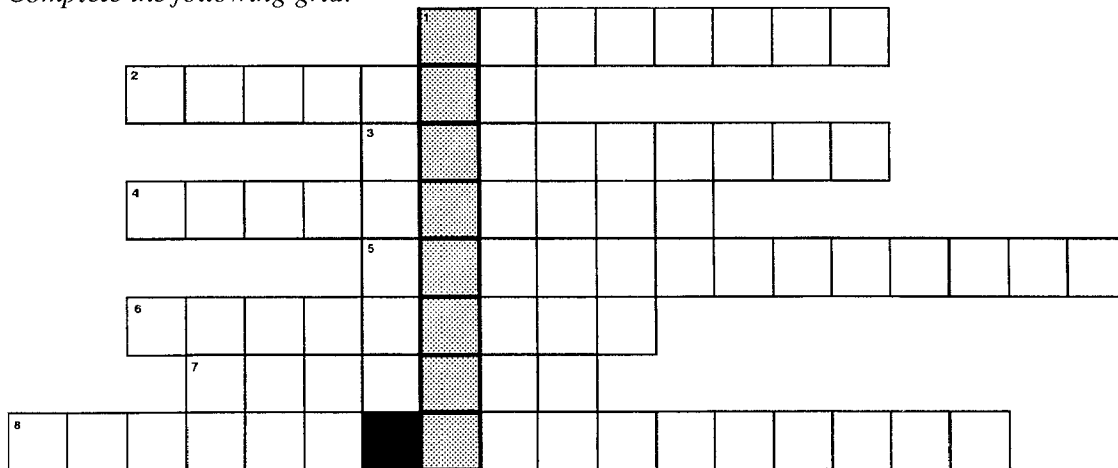
- ① .....
- ② .....
- ③ .....
- ④ .....

Steps required to create a digital version of effect number \_\_\_\_\_ :

- ① .....
- ② .....
- ③ .....
- ④ .....

## Assignment 29 *Camera and Lens Mechanics*

Complete the following grid:



# Assignment 30 *Problem Solving - Monochrome*

*Suitable sample files:*

- ① .....
- ② .....
- ③ .....
- ④ .....
- ⑤ .....

*Alternative Solutions:*

- ① .....
- ② .....

*Choice of Solutions:*

Alternative solution 1:

.....  
.....  
.....

Alternative solution 2:

.....  
.....  
.....

*Reasons SpeediPak may have evolved:*

.....  
.....  
.....  
.....

*Reasons Serve-U-Like may have evolved:*

.....  
.....  
.....  
.....